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U.S. Department
of Transportation

TRANSIT PLANNING AND RESEARCH PROGRAMS

FISCAL YEAR 1994 PROJECT DIRECTORY

March 1995

Federal Transit Administration

Office of Technical Assistance and Safety

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U.S. Department
of Transportation
**Federal Transit
Administration**

Administrator

400 Seventh St., S.W.
Washington, D.C. 20590

MAR 3 1995

A Message from the Federal Transit Administrator:

Transit plays a key role in linking Americans with jobs, education, health care, and cultural activities. The Federal Transit Administration (FTA) recognizes the need to expand the role of transit in serving people and the diverse communities they call home. Our Strategic Plan begins with this and lays out the new challenges we must address as we prepare to enter the 21st century.

Many challenges confront the transit community, FTA, and the Nation–challenges such as increasing personal mobility without increasing traffic congestion and environmental problems, and winning support for the vital role that transit has to play in making communities livable. FTA views these and other transportation challenges as opportunities to improve and expand mass transportation in America.

Working with the transit industry, we want to emphasize the ultimate consumer of all our endeavors–the customers–the American people who ride the buses, trolleys, trains, and vans.

FTA will maintain and improve its efforts to ensure that all transit riders have secure and safe rides. In partnership with customers and manufacturers, we will expand initiatives to develop and demonstrate new and innovative security and safety technologies, to improve operational safety, and to enhance emergency management planning.

The challenge for FTA and its customers, particularly in congested travel corridors, is to make transit a more effective alternative to driving. We must work together to ensure that transit systems are easier to use and more reliable and relevant to the needs of the public.

The FTA Strategic Plan supports a heightened Federal interest in mass transit research and development. This renewed commitment will support production of better transit vehicles and components and will foster transit industry adaptability to the demands of our day. This adaptability will enable the industry to respond to changes in transportation patterns and needs by providing needed new technologies that will improve global competitiveness.

I am proud to share with you this report on how the Federal Transit Administration (FTA) is translating its commitment to a new vision and a new philosophy for public transportation in America into specific transportation planning and research projects.

Gordon J. Linton

U.S. Department
of Transportation
Federal Transit
Administration

DEPARTMENT OF
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TRANSIT PLANNING AND RESEARCH PROGRAMS

FISCAL YEAR 1994 PROJECT DIRECTORY

March 1995

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FOREWORD

This annual directory contains brief descriptions of the transit planning, research and safety projects initiated during fiscal year 1994 by the Federal Transit Administration (FTA) of the U.S. Department of Transportation. Its purpose is to inform the transit community and the general public of the nature and scope of work underway to assist state and local agencies in improving services and reducing the cost of public transit.

The projects listed in the directory reflect the implementation of FTA's Strategic Plan, which includes a mission statement that brings a new vision to public transportation in America. The mission statement along with the eight vision strategies of the Strategic Plan are described in detail on pages v - viii of this document.

In this report, each project entry is profiled separately and consists of the following information: project title and number; grantee/contractor name and address; principal investigator name and telephone number; FTA project manager name and telephone number; funding source and funding dollar amount; start and completion dates; and a summary description of the project.

The 124 projects recorded in this FY 1994 directory are organized within the following transit subject areas: Advanced Public Transportation Systems; Clean Air; Finance; Human Resources and Productivity; Information; Planning and Project Development; Policy Analysis and Evaluation; Regional Mobility; Rural and Specialized Transit; Safety and Security; Technology Development; Transit Access; and Cooperative Research Programs.

The final section of this report contains the following project indices: By State and Project Number, By Grantee/Contractor, and By the Project Manager. In addition, the Regional Offices of the Federal Transit Administration are included in this report along with their street address, telephone and FAX numbers.

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Mission Statement and Vision Strategies of the Federal Transit Administration U.S. Department of Transportation

The Federal Transit Administration (FTA), one of the major agencies within the U.S. Department of Transportation, is guided by the mission established by the Secretary of Transportation, Federico Peña, which states that:

> *"The Department of Transportation will "Tie America Together" with a safe, technologically advanced, and efficient transportation system that promotes economic growth and international competiveness now and in the future, and contributes to a healthy and secure environment for us and our children."*

The FTA now has a Strategic Plan in place that supports the DOT mission. FTA's own mission statement brings a new vision to public transportation in America that addresses the complex challenges and boundless opportunities facing transit in America today:

> *"To ensure personal mobility and America's economic and community vitality by supporting high quality public transportation through leadership, technical assistance and financial resources."*

To carry forward this mission, the FTA has charted a bold new vision:

> *"We are leading America with high-quality public transportation that ensures personal mobility and livable communities."*

To translate this vision into action, the following eight Vision Strategies and Goals have been established by the FTA:

> **Vision Strategy No. 1: Maximize Security and Safety of Transit Systems for Service Users**--To provide a secure and safe environment that includes operationally safe equipment and facilities, as well as personal security and property protection.
>
> *Goal Number 1* - Improve personal security.
>
> *Goal Number 2* - Improve operational safety.
>
> *Goal Number 3* - Develop and demonstrate new and innovative security and safety technologies.
>
> *Goal Number 4* - Improve emergency management planning.

Vision Strategy No. 2: Foster Customer-Oriented Public Transportation--To focus on customer based needs for current and future markets and provide responsive, affordable, convenient, and accessible public transportation services.

Goal Number 1 - Emphasize improved transit services for minorities and transit dependent persons living in economically distressed communities.

Goal Number 2 - Make transit systems easier to use and more reliable to the customer.

Goal Number 3 - Support the development of full service transit systems that have the ability to meet a variety of customer needs.

Vision Strategy No. 3: Foster Industry Adaptability to Enable the Industry to Respond to Changes in Transportation Patterns, Technologies, and Needs--
To promote a competitive transit industry that plans and responds to changes in travel patterns and needs.

Goal Number 1 - Increase and improve public transportation effectiveness through research and adoption of new technology, management practices and service innovation.

Goal Number 2 - Foster production of "Better" transit vehicles and components.

Goal Number 3 - Promote the collection, dissemination,and exchange of information on research, technology, management practices, and innovation.

Goal Number 4 - Provide assistance to domestic transit manufacturers and technical service industries to enhance the U.S. competitive position in global markets.

Vision Strategy No. 4 - Maximize a Multimodal Approach to Transportation--
To Encourage collaboration among those who use, provide, regulate, fund and/or benefit from transportation to promote choices among transportation modes.

Goal Number 1 - Lead the development of seamless transportation systems that provide options and ensure convenient linkages between modes for all persons in all communities combined with a public awareness of those transportation choices through easily accessible integrated information.

Goal Number 2 - Promote a collaborative process among Federal, State, local, and other organizations (public and private) which provides a greater variety of choices in the transportation of people and goods.

Goal Number 3 - Identify and address community and individual transportation needs through intermodalism.

Vision Strategy No. 5: Ensure a Quality Organization that Emphasizes Mutual Respect--To be responsive to employee needs and empower its employees to be productive contributors to the FTA mission.

Goal Number 1 - Foster an environment which supports mutual respect and courtesy, ensures that all employees are treated fairly, and strives to maintain and upgrade the professional/technical knowledge and competence of employees.

Goal Number 2 - Foster an environment which actively promotes the employment and retention of a diverse workforce within FTA.

Goal Number 3 - Promote career development and the establishment of a fair and equitable reward system to include awards other than monetary. These initiatives will maximize individual contributions to the agency while improving employee quality of life.

Goal Number 4 - Encourage mutual understanding of the program challenges of headquarters and regional offices.

Goal Number 5 - Operate under the principle that employees are valued, empowered to make decisions and take risks while functioning as a team to accomplish the agency's mission.

Vision Strategy No. 6 - Ensure Highest Level of Transit Service Assistance Delivery--To improve the delivery of transit service and mobility for the public through a proactive role in providing technical assistance and support to transportation providers.

Goal Number 1 - Provide improved technical assistance to FTA grantees.

Goal Number 2 - Provide stable and reliable sources of funds for improved service.

Goal Number 3 - Improve ongoing program evaluation to increase effectiveness of the FTA program in supporting and improving public transportation and mobility.

Goal Number 4 - Streamline the grant delivery process and provide improved program management to FTA grantees.

Vision Strategy No. 7: Promote Linkages Between Transit Needs and Community Needs--To promote a coordinated planning process that involves the needs of the community through Livable Communities and improved personal mobility.

Goal Number 1 - Promote the development of transit facilities and services that meet the needs of communities, which are linked to land use planning and design that encourage pedestrian/bicycle access.

Goal Number 2 - Link transit and environmental planning to enhance environmental preservation.

Goal Number 3 - Promote a participatory planning and design process that stresses community involvement.

Vision Strategy No. 8: Foster a Positive Image for Public Transportation--To clearly demonstrate the benefits that public transportation brings to our communities and to raise the consciousness of the public toward the role of FTA as a major partner in public transportation.

Goal Number 1 - Promote public transportation in America with FTA as an active partner.

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Advanced Public Transportation Systems

Project Title:	**APTS Project Evaluation and Cross-Cutting Studies.**		
Project Number:	MA-26-7007		
Grantee/Contractor:	Volpe National Transportation Systems Center Kendall Square, DTS-49 Cambridge, Massachusetts 02142		
Principal Investigator:	Robert Ow	***Telephone:***	(617) 494-2411
FTA Project Manager:	Ronald E. Boenau, TTS-30	***Telephone:***	(202) 366-0195
Funding Source:	Section 26	***Funding:***	$1,000,000
Start Date:	May 1994	***Estimated Completion:***	June 1996

Description: There are substantial opportunities to develop innovative transit management practices and services. The challenge is in guiding transit operators to the best set of advanced technologies and innovations available. Advanced public transportation systems (APTS) operational test projects are currently being initiated at more than a dozen locations in the United States. In FY 1993, evaluation guidelines were drafted to guide development of evaluation plans for one-half of the APTS project locations. This project will develop site specific evaluation plans for the remaining APTS operational tests and begin implementing the evaluations at sites where plans have already been developed. A comprehensive national database for APTS operational test results is in the early stage of development. This project will help guide transit operators to the best set of advanced technologies and innovations available.

Project Title:	**APTS User Requirements and Technical Assistance**		
Project Number:	MA-26-7007		
Grantee/Contractor:	Volpe National Transportation Systems Center Kendall Square, DTS-49 Cambridge, Massachusetts 02142		
Principal Investigator:	Robert Ow	***Telephone:***	(617) 494-2411
FTA Project Manager:	Dennis J. Symes, TTS-30	***Telephone:***	(202) 366-0232
Funding Source:	Section 26	***Funding:***	$300,000
Start Date:	May 1994	***Estimated Completion:***	June 1996

Description: Transit authorities are incorporating newly developed APTS electronics and information technologies into their operations. This introduction into transit operations requires careful definition of user requirements. This project provides the necessary technical support for transit authorities to define their requirements and successfully install and operate these new systems. User Requirements Working Groups being formed include the Bus Vehicle Network Protocol Group, Geographic Information Systems Group, and Frequency Spectrum Allocation Group. These groups will monitor European, Japanese and other standards for onboard information systems, advanced vehicle location, and communication systems. Technical assistance will be given to local transit authorities for testing and adapting APTS technologies.

Advanced Public Transportation Systems

Project Title:	**APTS/ITS Systems Architecture Research**		
Project Number:	MA-26-7007		
Grantee/Contractor:	Volpe National Transportation Systems Center Kendall Square, DTS-49 Cambridge, Massachusetts 02142		
Principal Investigator:	Robert Ow	***Telephone:***	(617) 494-2411
FTA Project Manager:	Denis J. Symes, TTS-30	***Telephone:***	(202) 366-0232
Funding Source:	Section 26	***Funding:***	$800,000
Start Date:	May 1994	***Estimated Completion:***	June 1996

Description: The Federal Highway Administration (FHWA) is developing an overall systems architecture for intelligent transportation systems. This project will develop user and functional information flow requirements for the transit component of this architecture that is being developed by four contractors under a $10 million FHWA contract. Transit areas such as radio frequency spectrum allocation, automatic vehicle location, and system/software requirements will be analyzed and documented. The Federal Transit Administration (FTA) is defining the transit requirements through the Volpe National Transportation Systems Center (Volpe Center) and Sandia National Laboratories so that transit requirements are effectively represented. The results of this project will be entered into the FHWA systems architecture development.

Project Title:	**California Smart Traveler Research and Operational Tests**		
Project Number:	CA-26-0007-02		
Grantee/Contractor:	California Department of Transportation 1227 O Street, 5th Floor, M.S. 83 Sacramento, California 94273-0001		
Principal Investigator:	Robert R. Ratcliff	***Telephone:***	(916) 654-8367
FTA Project Manager:	Ronald E. Boenau, TTS-30	***Telephone:***	(202) 366-0195
Funding Source:	Section 26	***Funding:***	$470,000
Start Date:	April 1994	***Estimated Completion:***	April 1997

Description: The activities associated with the California Smart Traveler project are essential to the research, development, implementation, and operational evaluation of intelligent transportation systems (ITS) technologies in public transit. These operational tests include strong public-private partnerships in applying intelligent transportation systems technologies to transit. This project will 1) develop a state of the art report on APTS technologies for use in implementing APTS technology in Los Angeles and throughout the state; 2) establish a research and development laboratory; 3) analyze human factors of operator interfaces; 4) evaluate smart intermodal demonstration projects; 5) design a heads-up display unit for public transit operators; 6) produce an APTS video; 7) identify and evaluate APTS technologies; and 8) present the findings from these research and operational test activities at various meetings, conferences, and seminars.

Advanced Public Transportation Systems

Project Title:	**European Paratransit Technology and Operations**		
Project Number:	CA-26-0009-02		
Grantee/Contractor:	Gardner Consulting Planners 1005 DelAmo Street Redondo Beach, California 90277		
Principal Investigator:	Emile Gardner	***Telephone:***	(310) 374-0164
FTA Project Manager:	Denis J. Symes, TTS-30	***Telephone:***	(202) 366-0232
Funding Source:	Section 26	***Funding:***	$50,000
Start Date:	July 1994	***Estimated Completion:***	October 1995

Description: Transit services that help make our communities more livable, especially in low density areas and specialized services, can be too expensive for conventional fixed route transit. The use of flexibly routed transit service offers convenient, reliable service to customers at reasonable cost levels. Considerable developments in flexibly routed transit has occurred in Europe over the past two decades. This project will update the 1985 Federal Transit Administration report titled *Taxi-Based Paratransit Technology/Operations Packages in Europe* to reflect current European technologies and operational strategies. The project task is to prepare a final report that will document current European practices relating to: 1) flexibly routed transit technology and operations, 2) electronic payment systems, and 3) electronic passenger information systems. The documentation will include identification of the elements that make them successful or unsuccessful and those elements that are transferable to United States paratransit operations, as well as the costs and benefits of these technologies and operations.

Project Title:	**Operator Technical Support for APTS Projects**		
Project Number:	MA-26-0002-04		
Grantee/Contractor:	EG&G Dynatrend 24 New England Executive Park Burlington, Massachusetts 01803		
Principal Investigator:	Carol Schweiger	***Telephone:***	(617) 272-0300
FTA Project Manager:	Ronald Boenau, TTS-30	***Telephone:***	(202) 366-0195
Funding Source:	Section 26	***Funding:***	$99,986
Start Date:	July 1994	***Estimated Completion:***	October 1995

Description: The current APTS projects require technical expertise in electronic, computer, and communications technologies which have not been traditionally part of public transit. Tailoring these technologies to an individual transit system is a task unfamiliar to most transit operators. This project will provide technical expertise to transit operators participating in APTS and ITS projects. Assistance in areas such as automatic vehicle location, dispatching software, communications, and smart cards will be provided. The project will ensure that transit operators have the expertise needed for their APTS project's success.

Advanced Public Transportation Systems

Project Title:	**Potential for Advanced Minibus Services in the United States**		
Project Number:	PA-26-7000		
Grantee/Contractor:	The University of Pennsylvania School of Engineering and Applied Science 229B Town Building Philadelphia, Pennsylvania 19104-3426		
Principal Investigator:	Dr. Edward Morlok	***Telephone:***	(215) 898-8346
FTA Project Manager:	Denis J. Symes, TTS-30	***Telephone:***	(202) 366-0232
Funding Source:	Section 26	***Funding:***	$85,000
Start Date:	July 1994	***Estimated Completion:***	September 1995

Description: This project offers unique opportunities for developing advanced minibus service concepts that involve the private sector and use advance technologies, service plans, and organizational structures that make sense for the various United States transit markets. The objective of this project is to explore the potential for minibus services with advanced technologies, such as smart vehicle and smart traveler systems, in suburban and/or rural areas. The project will explore the development of a fixed route deviation service suitable for suburban and low density areas. The research will focus on the Philadelphia area as an application case study and will develop a specific service plan (route deviation) for a possible demonstration in one or more of the candidate markets identified in the area. This project will include travel markets not suited to conventional transit, service in low density suburban areas, and feeder service to fixed route bus and rail lines.

Project Title:	**Alternative Fuels Facilities Guidelines Conference**		
Project Number:	MA-26-7008-02		
Grantee/Contractor:	Volpe National Transportation Systems Center Kendall Square, DTS-38 Cambridge, MA 02142		
Principal Investigator:	William Hathaway	***Telephone:***	(617) 494-2081
FTA Project Manager:	Steven W. Sill, TTS-20	***Telephone:***	(202) 366-0220
Funding Source:	Section 26	***Funding:***	$75,000
Start Date:	June 1994	***Estimated Completion:***	July 1995

Description: Transit buses fueled by alternative fuels are rapidly becoming a significant part of transit fleets. These fuels differ from diesel in the fire, toxicity, and temperature characteristics. Guidance is required to assure adequate levels of safety in maintenance, fueling, and storage facilities for these alternative fueled vehicles. The Federal Transit Administration (FTA) is developing a guidelines document to assist transit bus operators in modifying or building facilities to safely accommodate alternative fueled transit buses. The purpose of this conference is to bring together members of the transit industry, architectural and engineering firms, and public safety organizations to participate in the development of this alternative fuels guidelines document.

Project Title:	**Alternative Fuels Facility Safety Review/Audit**		
Project Number:	MA-90-7007-01		
Grantee/Contractor:	Volpe National Transportation Systems Center Kendall Square Cambridge, MA 02142		
Principal Investigator:	William Hathaway	***Telephone:***	(617) 494-2081
FTA Project Manager:	Steven W. Sill, TTS-20	***Telephone:***	(202) 366-0220
Funding Source:	Section 23	***Funding:***	$250,000
Start Date:	June 1994	***Estimated Completion:***	July 1995

Description: This project is a continuation of the FTA's effort to perform safety audits of alternative fuels installations. The National Institute of Occupational Safety and Health has conducted health and safety audits at Triboro Coach, Seattle Metro, and the Southern California Rapid Transit District to evaluate the health and safety impacts of methanol in a transit environment. Similar onsite audits are being conducted for other alternative fuels such as compressed natural gas and liquefied natural gas. Since each alternative fuel presents different safety and health concerns when used in a transit environment, each alternative fuel is being assessed separately. A summary document, combining lessons learned from these individual surveys, will be prepared and disseminated to the transit industry.

Project Title:	**Alternative Fuels Clean Air Program Outreach Activities**		
Project Number:	DC-26-0021-01		
Grantee/Contractor:	National League of Cities Institute 1301 Pennsylvania Avenue, NW Washington, DC 20004		
Principal Investigator:	Erica Price	***Telephone:***	(202) 626-3181
FTA Project Manager:	Shang Hsiung, TTS-20	***Telephone:***	(202) 366-0241
Funding Source:	Section 26	***Funding:***	$50,000
Start Date:	August 1994	***Estimated Completion:***	May 1995

Description: Because of the transit industry's emerging role in alternative fuels issues, there is a need to provide the industry with current and accurate information in the various areas of concern, namely: alternative fuel engine technology, health and safety impacts, facility impacts, operations and maintenance impacts, regulatory constraints, and current as well as pending legislation and its impact. The National League of Cities Institute will continue to provide this type of information through its outreach activities for the Clean Air Program. Outreach activities include the development, preparation and dissemination of printed materials in the form of newsletters, technical briefs, bulletins, and facts sheets on the Clean Air Program, Federal legislation, State and local activities, Department of Energy activities, developments in alternative fuels technology, and publications available. These outreach activities are designed to help transit officials and decisionmakers at all levels keep abreast of current issues in the transportation fuels field.

Project Title:	**Alternative Fuels Safety Training Course**		
Project Number:	OK-26-7000		
Grantee/Contractor:	Research and Special Programs Administration Transportation Safety Institute 6500 South MacArthur Boulevard Oklahoma City, Oklahoma 73125		
Principal Investigator:	Robert F. Lower	***Telephone:***	(405) 954-3682
FTA Project Manager:	Steven W. Sill, TTS-20	***Telephone:***	(202) 366-0220
Funding Source:	Section 26	***Funding:***	$100,000
Start Date:	September 1994	***Estimated Completion:***	December 1995

Description: The variety of fuels used in buses to meet the Environmental Protection Agency's emission standards introduce new hazards into the transit operating environment. Training is necessary to insure that operators of the vehicles are aware of the hazards presented by the fuels and the steps necessary to insure safe operations. This project supports Train-the-Trainer courses for transit bus drivers and maintenance personnel. Train-the Trainer courses will train 80 instructors who in turn will train State and local transit personnel who fuel, maintain, and operate compressed natural gas, methanol, and liquefied natural gas vehicles. Instructions will consist of those safety practices and procedures that prevent costly accidents in terms of property damage and human life.

Project Title:	**CALSTART Consortium Electric Vehicle Program**		
Project Number:	CA-26-0021-01		
Grantee/Contractor:	CALSTART, Inc. 3601 Empire Avenue Burbank, California 91505		
Principal Investigator:	Paul Helliker	***Telephone:***	(818) 565-5600
FTA Project Manager:	Shang Hsiung, TTS-20	***Telephone:***	(202) 366-0241
Funding Source:	Section 26	***Funding:***	$800,000
Start Date:	September 1994	***Estimated Completion:***	October 1996

Description: The objective of this project is to support the efforts of CALSTART in the development of a full sized, 40-foot hybrid electric transit bus. Based on the knowledge gained from the development of the 22-foot and 30-foot buses, CALSTART will develop a 40-foot standard hybrid electric transit bus. CALSTART will also develop and demonstrate a high capacity energy storage device for electric transit vehicle applications. A supercapacitator has been identified with the potential to provide the necessary peaking power and regenerative energy storage for electric transit vehicles. This will enhance the performance and range of the vehicles.

Project Title:	**Electric Transit Vehicle Institute Challenge Grant**		
Project Number:	TN-26-0002-01		
Grantee/Contractor:	Chattanooga Area Regional Transportation Authority 1617 Wilcox Boulevard Chattanooga, Tennessee 37406		
Principal Investigator:	John Powell	***Telephone:***	(615) 622-3884
FTA Project Manager:	Shang Hsiung, TTS-20	***Telephone:***	(202) 366-0241
Funding Source:	Section 26	***Funding:***	$150,000
Start Date:	June 1994	***Estimated Completion:***	January 1997

Description: The objective of this grant is to assist the Chattanooga Area Regional Transportation Authority (CARTA) to continue to support the efforts of the Electric Transit Vehicle Institute to promote the design, production and use of electric vehicles in transit. The Institute will continue to serve as the facilitator and resource center for electric vehicle development for the transit industry. The Institute will also continue to serve to coordinate the transit industry's efforts in electric vehicles through the establishment of a technical coordinating committee, conferences, and information dissemination activities. The Institute's new activity is to serve as the coordinator for electric transit vehicle participation in the 1996 Summer Olympic Games in Atlanta, Georgia.

Project Title:	**Electric Vehicle Program Technical Support**		
Project Number:	MA-26-0021-01		
Grantee/Contractor:	Volpe National Transportation Systems Center Kendall Square Cambridge, MA 02142		
Principal Investigator:	David Spiewak	***Telephone:***	(617) 494-2771
FTA Project Manager:	Shang Hsiung, TTS-20	***Telephone:***	(202) 366-0241
Funding Source:	Section 26	***Funding:***	$24,790
Start Date:	June 1994	***Estimated Completion:***	July 1995

Description: This project provides technical support to the FTA for the management of the Advanced Transportation System and Electric Vehicle Research and Development Program. The program is a major, complex effort that requires the use of a technical support contractor for the success of the program. The technical support will include monitoring current developments in electric vehicle research, monitoring ongoing projects, and preparing technical analyses and briefs.

Project Title:	**Environmental Sourcebook for Transit Operations**		
Project Number:	MA-26-9005		
Grantee/Contractor:	EG&G Dynatrend, Inc. 24 New England Executive Park Burlington, Massachusetts 01803		
Principal Investigator:	Carl Harmon	***Telephone:***	(617) 272-0300
FTA Project Manager:	Joe Ossi, TGM-20	***Telephone:***	(202) 366-1613
Funding Source:	Section 26	***Funding:***	$75,000
Start Date:	March 1994	***Estimated Completion:***	February 1995

Description: The purpose of this project is to assist transit agencies in complying with Federal environmental requirements by preparing an environmental sourcebook that focuses strictly on regulations that limit or affect some aspect of transit operations. The environmental sourcebook will include three types of information: 1) summary of the many Federal environmental requirements focusing on aspects of the laws and rules that affect transit operations; 2) bibliography of the publications, videotapes, electronic bulletin boards and similar sources of information related to these environmental requirements; and 3) a list of names, addresses, and phone numbers of offices responsible for the requirement at the state and Federal levels of government. Environmental areas to be covered include underground storage tanks, stormwater management, bus emissions standards, handling coolants in bus air conditioners, tire recycling, battery disposal, recycling lubricants, handling and replacement of PCB-filled electrical equipment.

Project Title:	**Fuel Cell/Battery Bus Program**		
Project Number:	DC-26-0001-02		
Grantee/Contractor:	Department of Energy Office of Transportation Systems Washington, DC 20585		
Principal Investigator:	Bob Kost	***Telephone:***	(202) 586-8055
FTA Project Manager:	Shang Hsiung, TTS-20	***Telephone:***	(202) 366-0241
Funding Source:	Section 26	***Funding:***	$2,100,000
Start Date:	June 1994	***Estimated Completion:***	March 1996

Description: This program is a joint coordinated effort with the Department of Energy to demonstrate the feasibility of a fuel cell/battery propulsion system for an urban transit bus. The Phase 1 project has successfully demonstrated the technical feasibility of the fuel cell/battery propulsion system (brassboard model). This project will complete the Phase 2 effort, namely--the fabrication of three prototype medium-size fuel cell/battery transit buses and the systems design for a full-size fuel cell/battery transit bus. Two of these buses will use methanol fuel as the source for the hydrogen used in the fuel cell. One bus will be used in transit service in Los Angeles in coordination with the South Coast Air Quality Management District. The other bus will be located at Georgetown University. The third prototype bus will be demonstrated in revenue service in Chattanooga, Tennessee. The systems design for a 40-foot standard sized bus was completed in conjunction with the former Transportation Manufacturing Corporation. This project will also support the start of Phase 3--the testing, demonstration, and evaluation of the three prototype buses in transit service operations. The expected emission of a fleet of 200 fuel cell/battery buses is estimated to be equal to that of one current diesel bus.

Project Title:	**National Association of Regional Councils Clean Air Project**		
Project Number:	DC-26-9025		
Grantee/Contractor:	NARC Clean Air Project Federal Highway Administration 400 7th Street, SW Washington, DC 20590		
Principal Investigator:	Ralph Rizzo, HEP-40	***Telephone:***	(202) 366-5448
FTA Project Manager:	Steven W. Sill, TTS-20	***Telephone:***	(202) 366-0220
Funding Source:	Section 26	***Funding:***	$250,000
Start Date:	September 1994	***Estimated Completion:***	September 1997

Description: This project constitutes the direct support which the FHWA, FTA, and EPA provide to state, regional and local transportation agencies to assist them in complying with the provisions of the 1990 Clean Air Act Amendments as well as the transportation planning requirements in ISTEA and implementing regulations. The essence of the project is to identify their most pressing needs and target resources to address these issues in a timely manner. The scope of work comprises a number of activities involving focused research, information exchange, and support for periodic meetings and conferences for the major groups responsible for transportation/air quality planning.

Project Title:	**Hydrogen Fuel for Fuel Cell Bus Applications**		
Project Number:	DC-26-7000		
Grantee/Contractor:	National Hydrogen Association 1800 M Street, NW, Suite 300 Washington, DC 20036		
Principal Investigator:	Debbi L. Smith	***Telephone:***	(202) 223-5547
FTA Project Manager:	Shang Hsiung, TTS-20	***Telephone:***	(202) 366-0241
Funding Source:	Section 26	***Funding:***	$15,000
Start Date:	September 1994	***Estimated Completion:***	May 1995

Description: The safe use of hydrogen for fuel cells is essential to the success of the FTA Fuel Cell/Battery Bus Program. The objective of this cooperative agreement is to support the efforts of the National Hydrogen Association to conduct the Fifth Annual U.S. Hydrogen Meeting (1994). The National Hydrogen Association will coordinate the planning, execution, and reporting of the conference on a wide range of hydrogen technologies. The meeting will cover the application of hydrogen as a transportation fuel as well as related propulsion systems such as fuel cells. Health and safety issues relative to the use of hydrogen as a transportation fuel will be examined along with onboard vehicle storage issues, supply and distribution infrastructure issues, Federal and state policies, and impact to the environment. The FTA will assist in planning the conference, establishing agenda topics and obtaining conference speakers.

Finance

Project Title:	**Changes in Tax Treatment of Employer-Provided Parking**		
Project Number:	VA-06-0144		
Grantee/Contractor:	KPMG Peat Marwick 8150 Leesburg Pike Vienna, Virginia 22182		
Principal Investigator:	Roger Figura	***Telephone:***	(703) 442-0030
FTA Project Manager:	Richard Steinmann, TBP-10	***Telephone:***	(202) 366-4060
Funding Source:	Section 26	***Funding:***	$57,677
Start Date:	February 1994	***Estimated Completion:***	September 1994

Description: Transit finance has taken on added importance with the requirements in ISTEA, namely, that local transportation plans and transportation improvement programs be financially constrained. In addition, increasing transit investment needs and limitations on financial resources require transit operators to consider a wide range of financing mechanisms. This project provides resources to evaluate the effects of these alternatives. The project assesses the financial impact of the changes in the tax treatment of employer-provided parking, including changes made by the National Energy Policy Act and changes proposed in the President's Global Climate Change Action Plan.

Project Title:	**Technical Assistance for MPO Financial Planning**		
Project Number:	DC-26-7014		
Grantee/Contractor:	National Association of Regional Councils 1700 K Street, NW, 13th Floor Washington, DC 20006		
Principal Investigator:	John W. Epling	***Telephone:***	(202) 457-0710
FTA Project Manager:	Effie Stallsmith, TTS-10	***Telephone:***	(202) 366-5653
Funding Source:	Section 26	***Funding:***	$200,000
Start Date:	August 1994	***Estimated Completion:***	September 1995

Description: This project will help the metropolitan planning organizations (MPOs) develop their staff's capabilities in transit finance and provide them with the technical tools for carrying out the requirements of the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) and the Clean Air Act. The cooperative agreement supports the efforts of the National Association of Regional Councils to continue the development and testing of the Finance Plan Model, which provides the MPOs with tools for conducting financial capacity assessments. The project will identify problems, make recommendations for improving the Finance Plan's database management capability and examine how MPOs are adapting their organizational structures to perform the new responsibilities mandated by ISTEA. Phase 2 of this project will develop revenue forecasting methods and measures for interactive databases between state agencies, regional agencies, and MPOs.

Finance

Project Title:	**Review of the Internal Audit Practices of Transit Agencies**		
Project Number:	VA-26-7005		
Grantee/Contractor:	KPMG Peat Marwick 8200 Greensboro Drive, Suite 400 McLean, Virginia 22102-3803		
Principal Investigator:	Ralph Koch	*Telephone:*	(703) 917-6725
FTA Project Manager:	Effie Stallsmith, TTS-10	*Telephone:*	(202) 366-5653
Funding Source:	Section 26	*Funding:*	$148,713
Start Date:	April 1994	*Estimated Completion:*	December 1995

Description: Along with project management oversight authority, the FTA now has the authority for financial management oversight under Section 23 of the Federal Transit Act, as amended. As a result, the FTA has implemented a financial management oversight initiative. This project will review and assess the internal auditing practices of the following transit agencies: Kansas City Area Transportation Authority, Capital District Transportation Authority of Albany, Jacksonville Transportation Authority, Tidewater Transportation District Commission of Norfolk, and the Metropolitan Transit Development Board of San Diego. The auditing practices of these systems will be assessed in terms of their desirability, staff size, reporting relationships, and budgets. In addition, the review will describe each organization's structure, skill mix, and personnel performance appraisal system, and will evaluate the audits/reviews conducted by the transit agency's internal audit department.

Project Title:	**Risk Management Procedures for Transit Systems and Transit Agency Casualty/Liability Expense**		
Project Number:	MD-26-7001		
Grantee/Contractor:	Abacus Technology Corporation 5454 Wisconsin Avenue, Suite 1100 Chevy Chase, Maryland 20815		
Principal Investigator:	Kathryn Derr	*Telephone:*	(301) 907-8500
FTA Project Manager:	Effie Stallsmith, TTS-10	*Telephone:*	(202) 366-5653
Funding Source:	Section 26	*Funding:*	$234,986
Start Date:	September 1994	*Estimated Completion:*	October 1995

Description: Transit industry risk with respect to capital development, operations and maintenance of major transit projects has become an issue of concern in the 1990s. This project goes beyond considerations of insurance issues and addresses all forms of transit agency risk. The objectives of this project are: 1) to identify areas of risk and risk-related issues as well as current methods of risk management and allocations pertaining to the development of major transit investments; 2) to collect and evaluate transit casualty and liability expense data and related information to determine the accuracy and reliability of data used to estimate casualty and liability expenses within the industry; 3) to conduct case studies exemplifying a variety of risk issues and allocation and management methods for minimizing the effects of risks; and 4) to investigate owner-protection strategies. This project provides the transit industry with information that minimizes capital, operations and maintenance costs associated with major transit investments.

Human Resources

Project Title:	**Cardozo High School TransTech Academy**		
Project Number:	DC-26-2009		
Grantee/Contractor:	District of Columbia Public Schools 415 12th Street Washington, DC 20044		
Principal Investigator:	Shirley McCall	***Telephone:***	(202) 673-7753
FTA Project Manager:	Linda King, TCR-30	***Telephone:***	(202) 366-0816
Funding Source:	Section 26	***Funding:***	$75,000
Start Date	September 1994	***Estimated Completion:***	September 1995

Description: This project exposes innercity students at Cardozo Senior High School to careers in the transit industry. The project activities include developing and offering a transit course, placing students as summer interns, conducting recruitment activities, arranging field trips, and providing counseling and information to students about career and educational opportunities in transit.

Project Title:	**Cardozo High School TransTech Academy**		
Project Number:	DC-26-2003-01		
Grantee/Contractor:	District Of Columbia Public Schools 415 12th Street, NW Washington, DC 20044		
Principal Investigator:	Shirley McCall	***Telephone:***	(202) 673-7753
FTA Project Manager:	Linda King, TCR-30	***Telephone:***	(202) 366-0816
Funding Source:	Section 26	***Funding:***	$25,000
Start Date:	August 1994	***Estimated Completion:***	September 1994

Description: This project offers a transit training seminar and internship for Cardozo Senior High School TransTech Academy faculty. The project is designed to train faculty members who will teach the transportation studies curricula in transportation and transit related issues. The training program provides teachers with an intensive seminar/workshop at Cardozo and employment in a transit organization during the summer.

Human Resources

Project Title:	**Cooperative Education Program and In-House Training Program**		
Project Number:	NJ-26-2001-01		
Grantee/Contractor:	New Jersey Transit Corporation One Penn Plaza East Newark, New Jersey 07105-2246		
Principal Investigator:	Prim LaCapra	*Telephone:*	(201) 491-8047
FTA Project Manager:	Michael Virts, TCR-30	*Telephone:*	(202) 366-0816
Funding Source:	Section 26	*Funding:*	$400,000
Start Date:	September 1994	*Estimated Completion:*	October 1997

Description: Job opportunities for innercity youth are limited and the pool of potential skilled craft transit employees is small. This project trains innercity high school students for job opportunities in skilled craft areas of the local transit agency. The project also trains women employees of New Jersey Transit Corporation for better positions and job opportunities in the skilled craft areas of the transit industry.

Project Title:	**DBE Participation in Portland Westside Light Rail Project**		
Project Number:	OR-26-2001-02		
Grantee/Contractor:	Tri-County Metropolitan Transit District of Oregon 4012 S.E. 17th Avenue Portland, Oregon 97202		
Principal Investigator:	Julius L. Evans	*Telephone:*	(503) 238-4872
FTA Project Manager:	Michael Virts, TCR-30	*Telephone:*	(202) 366-0816
Funding Source:	Section 26	*Funding:*	$75,000
Start Date:	March 1994	*Estimated Completion:*	May 1995

Description: Traditionally, the Portland area has had difficulty in meeting disadvantaged business enterprise (DBE) requirements because of the limited number of DBEs in the area. At the same time, Tri-Met does not have the staff resources to help DBEs participate in large projects such as the Westside Light Rail Project. This project enlarges the pool of qualified DBEs. The project objective is to use planning, capital and technical assistance programs to develop partnerships with economically disadvantaged communities to determine the design, operation, and employment in transit-related services. This project provides management and technical services to DBEs participating in the Westside Project.

Human Resources

Project Title:	**DBE/Small Business Bonding Program**		
Project Number:	MA-26-2002		
Grantee/Contractor:	Massachusetts Bay Transportation Authority Ten Park Plaza Boston, Massachusetts 02116-3974		
Principal Investigator:	Hugh M. Scoggins	***Telephone:***	(617) 727-5763
FTA Project Manager:	Linda W. King, TCR-30	***Telephone:***	(202) 366-0816
Funding Source:	Section 26	***Funding:***	$150,000
Start Date:	September 1994	***Estimated Completion:***	October 1995

Description: Small firms are often unable to secure the necessary bonding that would enable them to bid on large contracts. This project helps to equalize the playing field for small, minority, and women-owned firms. The project provides technical services in support of a Disadvantaged Business Enterprise Small Business Bonding Support Program. DBEs will be helped to secure bonding that increases their opportunities to bid as prime contractors, or subcontractors, on large projects in the MBTA construction and procurement program. The long range goal is to increase the number of surety firms that provide bonding assistance to DBEs. MBTA has authorized a $1,000,000 bonding fund program to be used over a three year period.

Project Title:	**Diesel Mechanics Apprenticeship Training Program**		
Project Number:	AZ-26-2002		
Grantee/Contractor:	Tohono O'odham Nation PO Box 837 Sells, Arizona 85634		
Principal Investigator:	Richard Lower	***Telephone:***	(602) 383-2221
FTA Project Manager:	Michael Virts, TCR-30	***Telephone:***	(202) 366-0816
Funding Source:	Section 26	***Funding:***	$50,000
Start Date:	May 1994	***Estimated Completion:***	July 1995

Description: Unemployment and the lack of skilled diesel engine bus mechanics at the Indian reservation in Arizona generated the need and provided the opportunity for a diesel engine mechanics training program. This project benefits the Tohono O'odham Nation in that it provides training in diesel engine bus maintenance and repair for the tribal members of the Tohono O'odham Nation. The training consists of classroom instructions and on-the-job training.

Human Resources

Project Title:	**High School/High Tech Program**		
Project Number:	MD-26-2001		
Grantee/Contractor:	United Cerebral Palsy of Prince George's and Montgomery Counties, Inc. 3901 Woodhaven Lane Bowie, Maryland 20715-1299		
Principal Investigator:	Dr. Charles McNelly	*Telephone:*	(301) 262-4993
FTA Project Manager:	Michael Virts, TCR-30	*Telephone:*	(202) 366-0816
Funding Source:	Section 26	*Funding:*	$4,000
Start Date:	September 1994	*Estimated Completion:*	October 1994

Description: This project provided a learning experience for five students with disabilities attending high schools in Prince Georges and Montgomery Counties. The students were exposed to various professions in DOT.

Project Title:	**Summer Transportation Internship Program for Diverse Groups**		
Project Number:	DC-26-2007		
Grantee/Contractor:	Federal Highway Administration Personnel Operations Division, HPT-22 Washington, DC 20590		
Principal Investigator:	Anh Nguyen, HPT-22	*Telephone:*	(202) 366-4336
FTA Project Manager:	Michael Virts, TCR-30	*Telephone:*	(202) 366-0816
Funding Source:	Section 26	*Funding:*	$50,000
Start Date:	May 1994	*Estimated Completion:*	October 1994

Description: This project was designed to draw a larger pool of trained personnel from diverse groups (African-American, Hispanic, etc.) into the Nation's transit industry. It provided summer interships for 20 students in the field of transportation. A 10-week agenda of research, work experience, and travel introduced students from diverse groups to the transportation industry.

Human Resources

Project Title:	**Increasing Native American Participation in Programs and Services of the Federal Transit Administration**		
Project Number:	DC-26-2004		
Grantee/Contractor:	North American Indian Women's Association 11424 16th Street, NW, Suite 102 Washington, DC 20036		
Principal Investigator:	Dr. Carmaleta L. Monteith	***Telephone:***	(404) 266-2848
FTA Project Manager:	Michael Virts, TCR-30	***Telephone:***	(202) 366-0816
Funding Source:	Section 26	***Funding:***	$50,000
Start Date:	May 1994	***Estimated Completion:***	June 1995

Description: Native Americans have serious transit needs and are not always aware of available transit resources. Some nationwide transit resources are not properly designed to be accessible to the Native American community. This project, conducted by the North American Indian Women's Association, helps the Native American community become aware of the FTA programs which may benefit them.

Project Title:	**National Transit Labor/Management Cooperation Conference**		
Project Number:	DC-26-7018		
Grantee/Contractor:	Amalgamated Transit Union 5025 Wisconsin Avenue, NW Washington, DC 20016-4139		
Principal Investigator:	Robert Molofsky	***Telephone:***	(202) 244-1645
FTA Project Manager:	Charles Morison, TTS-30	***Telephone:***	(202) 366-0245
Funding Source:	Section 26	***Funding:***	$250,000
Start Date:	September 1994	***Estimated Completion:***	December 1995

Description: The FTA continues to play a positive role in promoting labor and management cooperation in the transit industry. This project assists the Amalgamated Transit Union in cooperation with other transit unions, transit management, the FTA and the Department of Labor to develop and conduct a National Conference on Labor and Management Cooperation, and to conduct ten regional workshops designed to explore new labor and management partnerships including mutual gains bargaining, and other techniques for improving labor and management relations in the transit industry. The conference products and results will form the basis for the regional workshops to promote labor and management cooperation throughout the industry.

Project Title:	**National Transportation Consortium**		
Project Number:	DC-26-2008		
Grantee/Contractor:	National Transportation Consortium of Minority Colleges and Universities , Inc. 601 Pennsylvania Avenue, NW North Building, Suite 700 Washington, DC 20004		
Principal Investigator:	Lee Davis	*Telephone:*	(202) 508-3672
FTA Project Manager:	Linda King, TCR-30	*Telephone:*	(202) 366-0816
Funding Source:	Section 26	*Funding:*	$300,000
Start Date:	September 1994	*Estimated Completion:*	September 1995

Description: The National Transportation Consortium will develop an Introduction to Transit course that focuses on four Historically Black Colleges and Universities. The course provides information and training to students in transit and transit/transportation-related issues.

Project Title:	**Targeted Implementation Program for Disadvantaged Business Enterprises Procurement and Job Bank**		
Project Number:	AL-26-2001-01		
Grantee/Contractor:	Conference of Minority Transportation Officials 1330 Connecticut Avenue, NW, Suite 320 Washington, DC 20036		
Principal Investigator:	Margareth C. Harper	*Telephone:*	(202) 775-1118
FTA Project Manager:	Linda King, TCR-30	*Telephone:*	(202) 366-0816
Funding Source:	Section 26	*Funding:*	$114,000
Start Date:	March 1994	*Estimated Completion:*	March 1995

Description: This project implements a targeted outreach and recruitment program among twenty FTA grantees by using two databases, Minority Information Repository of Resource and Opportunity Records (MIRROR), and the Business Opportunity Support System (BOSS), as a primary source for job and career posting opportunities.

Human Resources

Project Title:	**Transportation Career Academies**		
Project Number:	CA-26-2001		
Grantee/Contractor:	Los Angeles County Metropolitan Transit Authority 818 West 7th Street, Suite 300 Los Angeles, California 90017		
Principal Investigators:	Michelle Caldwell	***Telephone:***	(213) 224-6958
	Carolyn Drummond	***Telephone:***	(213) 224-6958
FTA Project Manager:	Linda W. King, TCR-30	***Telephone:***	(202) 366-0816
Funding Source:	Section 26	***Funding:***	$300,000
Start Date:	November 1994	***Estimated Completion:***	December 1995

Description: Transportation Career Academies will be established at three innercity high schools in Los Angeles: Locke, North Hollywood and Wilson High Schools. The "academies" will help prepare 9th through 12th graders for transportation-related occupations and technical careers.

Information

Project Title:	**Data on Transit Conditions**		
Project Number:	VA-26-6003-02		
Grantee/Contractor:	Booz Allen and Hamilton 8251 Greensboro Drive McLean, Virginia 22102		
Principal Investigator:	Donald Schneck	***Telephone:***	(215) 496-8403
FTA Project Manager:	Richard Steinmann, TBP-10	***Telephone:***	(202) 366-4060
Funding Source:	Section 26	***Funding:***	$143,000
Start Date:	December 1994	***Estimated Completion:***	March 1995

Description: The purpose of this project is 1) to develop information on transit conditions to improve the data available for the next FTA report to Congress on Transit and Highways Conditions, Performance, and Investment Requirements, and 2) to develop ongoing methods to collect this information. Data will be collected from local studies regarding transit conditions and public transportation management systems.

Project Title:	**Development of Technical Briefs and Technical Fact Sheets**		
Project Number:	MD-26-7013		
Grantee/Contractor:	Graphics Visions Associates, Inc. 640 Diamond Avenue, Suite F Gaithersburg, Maryland 20877-5319		
Principal Investigator:	William Fosnaught	***Telephone:***	(301) 963-8600
FTA Project Manager:	Helen Tann, TTS-5	***Telephone:***	(202) 366-0207
Funding Source:	Section 26	***Funding:***	$9,570
Start Date:	November 1994	***Estimated Completion:***	March 1995

Description: The professional skills in the design, layout and production of attractive printed materials are not available within the agency. Such skills are essential to clear communication of the research activities sponsored by the FTA. This project will provide for graphic design and layout services to assist the FTA in producing a series of Technical Briefs and Fact Sheets announcing the activities of the Transit Planning and Research Programs. These documents are widely distributed and used to inform a variety of customers in the transit industry. The documents are also used by the FTA and other Federal government officials in briefing sessions, program reviews, and decisionmaking.

Information

Project Title:	**Maintain Transit Planning and Research Mailing List**		
Project Number:	MD-26-7012		
Grantee/Contractor:	Ricards International Inc. 8484 Georgia Avenue, Suite 320 Silver Spring, Maryland 20910		
Principal Investigator:	Edward R. Alexander, Jr.	***Telephone:***	(301) 650-7427
FTA Project Manager:	Henry Nejako, TTS-5	***Telephone:***	(202) 366-0184
Funding Source:	Section 26	***Funding:***	$47,925
Start Date:	August 1994	***Estimated Completion:***	August 1995

Description: Ricards International Inc. (RII) will manage and keep up to date a mailing list database of approximately 8,000 individuals in the transportation community. The mailing list is used to disseminate information about the FTA planning and research project and program activities. RII will use advanced data management techniques to resolve problems of duplicate, inconsistent or obsolete information and will provide the Office of Technical Assistance and Safety with customized mailing labels and updated computer database files to be copied to the local area computer network for use by the FTA staff.

Project Title:	**Printing and Distribution of Office of Technical Assistance and Safety Technical Reports**		
Project Number:	DC-26-0011-03		
Grantee/Contractor:	Office of the Secretary of Transportation Department of Transportation Washington, DC 20590		
FTA Project Manager:	Helen Tann, TTS-5	***Telephone:***	(202) 366-0207
Funding Source:	Section 26	***Funding:***	$35,000
Start Date:	September 1994	***Estimated Completion:***	December 1994

Description: The Office of Technical Assistance and Safety provides financial assistance to projects which explore technologies, service concepts, new techniques, and analytic tools for operating and managing transit. In order to make this information available to concerned and interested transit groups, it is necessary that it be disseminated throughout the country, usually in the form of printed reports. This interagency agreement with the Office of the Secretary of Transportation provides funds for the printing and distribution of these reports.

Project Title:	**Printing and Distribution of Planning and Research Products**		
Project Number:	DC-26-9004-02		
Grantee/Contractor:	Research and Special Programs Administration Department of Transportation Washington, DC 20590		
Manager:	Norman Paulhus	*Telephone:*	(202) 366-4208
FTA Project Manager:	Sean Libberton, TGM-20	*Telephone:*	(202) 366-0055
Funding Source:	Section 26	*Funding:*	$85,000
Start Date:	September 1994	*Estimated Completion:*	September 1996

Description: This project provides publications support to both headquarters and regional offices in terms of publishing and disseminating planning and research materials to the transit community and the general public. Publications support includes assistance in publication layout, design, printing and wide distribution of materials to the transit community-at-large, as well as warehousing of stock and archival report availability through the National Technical Information Service and other repositories.

Project Title:	**Resource Information System**		
Project Number:	MA-26-7013		
Grantee/Contractor:	Volpe National Transportation Systems Center Kendall Square, DTS-44 Cambridge, Massachusetts 02142		
Principal Investigator:	Santo LaTores	*Telephone:*	(617) 494-2429
FTA Project Manager:	Patricia Cass, TTS-1	*Telephone:*	(202) 366-0185
Funding Source:	Section 26	*Funding:*	$250,000
Start Date:	August 1994	*Estimated Completion:*	September 1995

Description: The purpose of this project is to finalize the development, deployment, and maintenance of the Resource Information System. The Resource Information System is a computerized online database system available to any transit industry user that can be accessed through a personal computer with a modem. The Resource Information System provides the latest available information regarding the ongoing and published research projects of the FTA as well as the technical assistance activities of the Transit Planning and Research Program. It also provides and integrates the available research information under the National component, the Transit Cooperative Research Program, the Rural Technical Assistance Program, the National Transit Institute, the University Transportation Centers Program, the University Institute Program, and the State Planning and Research Program.

Information

Project Title:	**Review of Transportation Improvement Programs and Long Range Transportation Plans**		
Project Number:	VA-26-6003-01		
Grantee/Contractor:	Booz Allen and Hamilton 8251 Greensboro Drive McLean, Virginia 22102		
Principal Investigator:	Donald Schneck	***Telephone:***	(215) 496-8403
FTA Project Manager:	Richard Steinmann, TBP-10	***Telephone:***	(202) 366-4060
Funding Source:	Section 26	***Funding:***	$135,238
Start Date:	September 1994	***Estimated Completion:***	May 1995

Description: The purpose of this project is to review the Transportation Improvement Programs (TIPs) and Long Range Transportation Plans (LRTPs) for use in estimating transit investment requirements. Information will be developed from the TIPs and LRTPs on forecast levels of transit demand over a 20 year period, the mix of transit investments planned and programmed, and per unit capital costs and ridership. This work is needed to improve the data available for the 1995 report to Congress on the Status of the Nation's Transit and Highways Conditions, Performance, and Investment Requirements.

Project Title:	**Section 15 Performance Profiles**		
Project Number:	VA-26-9014-01		
Grantee/Contractor:	Material Computers and Communications, Inc. 1500 North Beauregard Street, Suite 108 Alexandria, Virginia 22311		
Principal Investigator:	Rob Burthey	***Telephone:***	(703) 820-3500
FTA Project Manager:	Paul R. Branch, TGM-10	***Telephone:***	(202) 366-1656
Funding Source:	Section 26	***Funding:***	$200,000
Start Date:	September 1994	***Estimated Completion:***	October 1995

Description: This project develops bus and rail performance profiles for transit systems (approximately 550) operating 10 or more vehicles in maximum service. Data will be retrieved from the Section 15 database and aggregated to indicate each agency's service effectiveness, vehicle efficiency and maintenance efficiency. The profiles consist of performance indicators that support and are used in the FTA Triennial Review and Oversight Programs to evaluate the grantee's overall management and planning process. Performance profiles indicate the strengths and weakness of the operators, thus, helping to improve the safety and service effectiveness of the transit agency. This project also improves the competitive edge of the industry. Performance profiles contain a peer group analysis that indicates how a particular system is performing compared to similar agencies nationally. The profiles report will be available to the public as a computer disk and as a hardcopy document.

Information

Project Title:	**Section 15 Technical Support**		
Project Number:	MA-26-9002-01		
Grantee/Contractor:	DIGICON Corporation 6707 Democracy Boulevard, Suite 402 Bethesda, Maryland 20817-1129		
FTA Project Manager:	Marvin Futrell, TGM-10	***Telephone:***	(202) 366-6471
Funding Source:	Section 26	***Funding:***	$2,000,000
Start Date:	September 1994	***Estimated Completion:***	October 1995

Description: This project provides major technical and administrative support to the management and operations of the Section 15 program in terms of data collection and validation, database management and maintenance, software development, and annual report production. The project effort includes: 1) improving data access and applications for public and private sectors analysis; 2) reviewing changes to the *Reporting Manual* for compatibility and consistency with changes resulting from rulemaking; and 3) providing guidance for implementing changes to the Section 15 program. Under the Section 15 program, transit systems submit detailed summaries of their financial and operating data to the FTA. This data is used in planning for public transit services and making investment decisions at the Federal, state, and local levels. It is also used as a management tool in the planning, design, and evaluation of transit related projects.

Project Title:	**Section 15 Technical Support**		
Project Number:	MA-26-9008		
Grantee/Contractor:	Volpe National Transportation Systems Center Kendall Square Cambridge, Massachusetts 02142		
Principal Investigator:	Bill Lyons	***Telephone:***	(617) 494-2579
FTA Project Manager:	Paul R. Branch, TGM-10	***Telephone:***	(202) 366-1656
Funding Source:	Section 26	***Funding:***	$300,000
Start Date:	September 1994	***Estimated Completion:***	October 1995

Description: This project provides technical support to the management and operations of the Section 15 program, namely: data validation, database maintenance, and software improvements. It includes upgrading the computer software for the Section 9 apportionment formula program and conducting special studies of the Section 15 data for the industry. The project revises Volumes 1 and 2 of the *Uniform System of Accounts and Records, Section 15 Program* with the intent of accommodating changes resulting from rulemaking, simplifying the procedures, and improving the industry's understanding of the accounting and financial information required by the Uniform System of Accounts and Records, Section 15 program.

Information

Project Title:	**Technical Assistance and Research Dissemination**		
Project Number:	DC-26-7009		
Grantee/Contractor:	National Academy of Sciences Transportation Research Board Washington, DC 20418		
Principal Investigator:	Peter Shaw	***Telephone:***	(202) 334-2934
FTA Project Manager:	Gwendolyn R. Cooper, TTS-10	***Telephone:***	(202) 366-0198
Funding Source:	Section 26	***Funding:***	$339,000
Start Date:	September 1994	***Estimated Completion:***	September 1995

Description: The Transportation Research Board (TRB) is a unique resource of highly regarded and experienced experts which can develop and disseminate new information addressing transit issues. This project, matched with other Federal, state, local, and private funding, allows the TRB to manage and administer the extensive network of professionals and experts that forms their membership. The project supports the TRB effort to allow experts in all areas of the transit industry to join together in improving the safety, effectiveness, and sufficiency of mass transit services. The project also provides for the maintenance and operations of the Urban Mass Transportation Research Information Service, a subfile of the computerized online database Transportation Research Information Service (TRIS) which is available worldwide to users of DIALOG Information Services.

Project Title:	**Transit Geographic Information System**		
Project Number:	DC-26-7007		
Grantee/Contractor:	Department of Transportation Computer Center 400 7th Street, SW Washington, DC 20590		
FTA Project Manager:	Edwin I. DeLong, TAD-20	***Telephone:***	(202) 366-9537
Funding Source:	Section 26	***Funding:***	$50,000
Start Date:	March 1994	***Estimated Completion:***	March 1995

Description: This project will provide technical support to maintain the FTA Transit Geographic Information System (GIS). Technical support will be in the area of GIS hardware, software, and data documentation. Support will include GIS staff training and the conversion of current FTA program management data into GIS-based data. A clearinghouse for data exchange and system operations related to Transit GIS will be established at headquarters.

Project Title:	**Transit Geographic Information System**		
Project Number:	MA-26-0002-05		
Grantee/Contractor:	EG&G Dynatrend 24 New England Executive Park Burlington, Massachusetts 01803		
Principal Investigator:	Larry Harman	*Telephone:*	(617) 272-0300
Funding Source:	Section 26 and	*Funding:*	$99,986
Project Number:	MA-26-0001-02		
Grantee/Contractor:	Technology and Management Systems, Inc. 99 S. Bedford Street, Suite 211 Burlington, Massachusetts 01803		
Principal Investigator:	Phani Raj	*Telephone:*	(617) 272-3033
FTA Project Manager:	William E. Wiggins, TTS-10	*Telephone:*	(202) 366-0255
Funding Source:	Section 26	*Funding:*	$99,999
Start Date:	April 1994	*Estimated Completion:*	May 1995

Description: An electronic transit geographic information system (GIS) will be a key tool for measuring and understanding the extent, use, and performance of the Nation's public transit system assets. It will also be a key component of the National Spatial Data Infrastructure currently being developed in all sectors of the Federal government. Information developed for this system will also be a key component of the National Transportation System database being created by the Department in cooperation with the Bureau of Transportation Statistics. This project will develop a GIS database of selective bus routes of the Nation's fixed-route bus systems. It will identify and evaluate the national availability of GIS-based data. Data will be collected and prepared for entry into the national fixed-route database within the FTA's Transit GIS.

Project Title:	**Transit Geographic Information System**		
Project Number:	MA-26-7006		
Grantee/Contractor:	Volpe National Transportation Systems Center Kendall Square, DTS-44 Cambridge, Massachusetts 02142		
Principal Investigator:	Bruce Spear	*Telephone:*	(617) 494-2192
FTA Project Manager:	William E. Wiggins, TTS-10	*Telephone:*	(202) 366-0255
Funding Source:	Section 26	*Funding:*	$250,000
Start Date:	March 1994	*Estimated Completion:*	February 1995

Description: This project provides technical support for the development of a prototype Transit Geographic Information System (GIS). The Transit GIS prototype will contain a variety of databases such as county and state boundaries, congressional districts, metropolitan statistical areas, railroads, and highway databases. Technical support will include cost benefit analysis and requirements for the Transit GIS, purchase of hardware and software technology, and installation of the Transit GIS prototype.

Information

Project Title:	**Transit Performance Monitoring System**		
Project Number:	DC-26-6022		
Grantee/Contractor:	American Public Transit Association 1201 New York Avenue, NW Washington, DC 20005		
Principal Investigator:	Richard Weaver	***Telephone:***	(202) 898-4089
FTA Project Manager:	Fred Williams, TBP-10	***Telephone:***	(202) 366-1696
Funding Source:	Section 26	***Funding:***	$306,799
Start Date:	March 1995	***Estimated Completion:***	March 1997

Description: The Section 15 program collects data only on transit agency's internal economic performance, a small part of overall performance. It omits such factors as the quality of service, recipients of transit benefits, and value of the transit service to user and society. The American Public Transit Association (APTA) intends to develop a method for collecting additional information on transit performance through the Section 15 data collection process. The project focuses on collecting data related to transit user characteristics and service quality by conducting onboard surveys in conjunction with the Section 15 data collection system. APTA will work with industry members to develop standard data gathering methods and forms for possible inclusion into the Section 15 system.

Project Title:	**California Initiative**		
Project Number:	CA-08-0265		
Grantee/Contractor:	Los Angeles County Metropolitan Transportation Authority 818 West 7th Street, Suite 300 Los Angeles, California 90017		
Principal Investigator:	Dennis Newjahr	***Telephone:***	(213) 623-1194
FTA Project Manager:	Jennifer L. Weeks	***Telephone:***	(202) 366-6510
Funding Source:	Section 26	***Funding:***	$300,000
Start Date:	March 1994	***Estimated Completion:***	July 1995

Description: The growth of immigrant groups in our Nation's metropolitan areas means that transit agencies and local governments need to find ways to identify and address the transit needs of these groups. This project intends to provide transit operators and decisionmakers with such guidance. The California Initiative is a project to research methods to adequately identify and address the transit needs of citizens of varying ethnic origins, as well as methods for including members of ethnic groups in public involvement activities. Project results will be documented in a "best practices" manual and disseminated to transit operators and decisionmakers.

Project Title:	**Environmental Sourcebook for Transit Operations**		
Project Number:	MA-26-9005		
Grantee/Contractor:	EG&G Dynatrend, Inc. 24 New England Executive Park Burlington, Massachusetts 01803		
Principal Investigator:	Carl Harmon	***Telephone:***	((617) 272-0300
FTA Project Manager:	Joe Ossi, TGM-20	***Telephone:***	(202) 366-1613
Funding Source:	Section 26	***Funding:***	$75,000
Start Date:	March 1994	***Estimated Completion:***	February 1995

Description: The purpose of this project is to assist transit agencies in complying with Federal environmental requirements by preparing an environmental sourcebook that focuses strictly on regulations that limit or affect some aspect of transit operations. The environmental sourcebook will include three types of information: 1) summary of the many Federal environmental requirements focusing on aspects of the laws and rules that affect transit operations; 2) bibliography of the publications, videotapes, electronic bulletin boards and similar sources of information related to these environmental requirements; and 3) a list of names, addresses, and phone numbers of offices responsible for the requirement at the state and Federal levels of government. Environmental areas to be covered include underground storage tanks, stormwater management, bus emissions standards, handling coolants in bus air conditioners, tire recycling, battery disposal, recycling lubricants, handling and replacement of PCB-filled electrical equipment.

Project Title:	**Evaluation Criteria for New Transit Projects**		
Project Number:	TX-26-0007-01		
Grantee/Contractor:	Texas A&M Research Foundation Texas Transportation Institute Box 5378 College Station, Texas 77843		
Principal Investigator:	Glen Goodin	***Telephone:***	(409) 845-8626
FTA Project Manager:	Dwayne Weeks, TGM-20	***Telephone:***	(202) 366-6203
Funding Source:	Section 26	***Funding:***	$40,000
Start Date:	September 1994	***Estimated Completion:***	November 1995

Description: This project continues the original project effort to develop evaluation criteria for new transit projects and enables the FTA to meet the "new starts" requirements of Section 3(i) of the Federal Transit Act of 1991. The research effort completes the identification and testing of transit project evaluation criteria and measures of effectiveness that can be used to evaluate transit supportive land use policies. The project aims to identify those criteria that effectively indicate and measure transit supportive land use policies and patterns. This project provides assistance to transit planners, MPOs, and local decisionmakers within Texas and elsewhere to evaluate and encourage land use policies conducive to fixed guideway transit.

Project Title:	**Fruitvale Transit Village Site Planning Study**		
Project Number:	CA-08-0266		
Grantee/Contractor:	Metropolitan Transportation Commission Metro Center 101 Eighth Street Oakland, California 94607		
Principal Investigator:	Arabella Martinez	***Telephone:***	(510) 535-6900
FTA Project Manager:	Edward Thomas, TTS-10	***Telephone:***	(202) 366-0264
Funding Source:	Section 26	***Funding:***	$470,000
Start Date:	September 1994	***Estimated Completion:***	September 1996

Description: The Bay Area Rapid Transit District (BART) and the Metropolitan Transportation Commission (MTC) are working with the Spanish Speaking Unity Council (SSUC) to develop the BART Fruitvale Station into a transit village--a $75million, 15-17 acre development. The land to be developed is owned by BART. The central goal of the Fruitvale BART mixed-use development project is to transform the commercial and transportation core of the Fruitvale neighborhood into a vital, convenient and healthy place to live, work and shop. This project assists BART and AC Transit in improving transit customer access to the transit village which will include a health care facility, educational facility, senior citizen housing complex, a police substation, a child care center, and retail services with a pedestrian plaza. The Fruitvale Transit Village is of such a scale that it has the potential to be the catalyst for inner city revitalization. This Fruitvale site planning study is sponsored by the FTA Livable Communities Initiative.

Project Title:	**Turnkey Demonstration Program**		
Project Number:	MD-26-0001-05		
Grantee/Contractor:	Booz-Allen and Hamilton, Inc. 4330 East-West Highway Bethesda, Maryland 20814-4455		
Principal Investigator:	Donald Schneck	*Telephone:*	(215) 496-8400
FTA Project Manager:	Effie Stallsmith, TTS-10	*Telephone:*	(202) 366-5653
Funding Source:	Section 26	*Funding:*	$25,000
Start Date:	May 1994	*Estimated Completion:*	May 1995

Description: The ISTEA contains special provisions for turnkey demonstrations and regulations on related procurements. This project facilitates the implementation and management of the Turnkey Demonstration Program. The project provides technical advice and assistance in the following areas: acquisition planning, pre-bidding process, risk assessment and management, environmental mitigation, procurement, and financing. Project activities also include: documenting each phase of the demonstration projects; providing support and outreach activities at meetings, workshops, and conferences; as well as providing a report with recommendations that assist the FTA and the transit community in the implementation and management of the turnkey programs.

Title:	**Turnkey Demonstration Program**		
Project Number:	MD-26-0001-06		
Grantee/Contractor:	Booz-Allen and Hamilton, Inc. 4330 East-West Highway Bethesda, Maryland 20814-4455		
Principal Investigator:	Donald Schneck	*Telephone:*	(215) 496-8400
FTA Project Manager:	Sal Caruso, TTS-10	*Telephone:*	(202) 366-0217
Funding Source:	Section 26	*Funding:*	$39,000
Start Date:	May 1994	*Estimated Completion:*	May 1995

Description: This project is part of an effort to assist the FTA in evaluating the efficiencies of the turnkey procurement method compared with traditional procurement methods in terms of cost effectiveness, risk management, project management and other factors. The project tasks include conducting conferences and seminars with the transit industry and providing technical assistance to the following four turnkey demonstration sites: Baltimore Light Rail Extension; San Juan Tren Urbano, El Segundo Del Norte (Green Line) in Los Angeles; and the San Francisco BART Airport Extension.

Project Title:	**Turnkey Demonstration Project Evaluation Oversight**		
Project Number:	CA-90-7001		
Grantee/Contractor:	Gardner Consulting Planners, Inc. 22010 South Wilmington Avenue, Suite 300 Carson, California 90745		
Principal Investigator:	Emile Gardner	***Telephone:***	(310) 522-9584
FTA Project Manager:	Sal Caruso, TTS-10	***Telephone:***	(202) 366-0217
Funding Source:	Section 26	***Funding:***	$150,000
Start Date:	September 1994	***Estimated Completion:***	June 1995

Description: ISTEA authorized the FTA to select four transit projects to participate in the FTA Turnkey Demonstration Project Evaluation Oversight. The four programs selected are: Baltimore Light Rail Extension; San Juan Tren Urbano Rail; El Segundo Del Norte (Green Line) Station; and the BART Airport Extension. These projects will be evaluated and monitored throughout development, engineering, construction and final delivery in order to fully ascertain turnkey's value in transit systems delivery. Each selected project will be evaluated against a similar non-turnkey project to determine the value of the turnkey process. A project evaluation action plan will be developed to determine the basic framework for conducting the evaluation and oversight activity. The evaluation validates and documents any benefits derived from the turnkey process. Evaluation results will provide FTA with information useful to assessing its current statutory guidelines and rules, and addressing the issues identified in the demonstration. These activities will be closely coordinated with the project and financial management oversight and the environmental processing programs.

Project Title:	**Turnkey Demonstration Project Evaluation Oversight**		
Project Number:	MA-90-7005-03		
Grantee/Contractor:	EG&G Dynatrend Inc. 24 New England Executive Park Burlington, Massachusetts 01803		
Principal Investigator:	Thomas Luglio	***Telephone:***	(617) 935-3960
FTA Project Manager:	Sal Caruso, TTS-10	***Telephone:***	(202) 366-0217
Funding Source:	Section 26	***Funding:***	$75,000
Start Date:	September 1994	***Estimated Completion:***	October 1995

Description: This project provides the FTA with support in the implementation of the Turnkey Demonstration Program, specifically, the Bay Area Rapid Transit (BART) Airport Extension demonstration project. The project will be evaluated and monitored throughout development, engineering construction, and final delivery. Project activities include the following: preparing a project evaluation action plan; compiling data on similar non-turnkey transit projects for comparative analysis; providing data analysis and review of major technical areas of the demonstration project; and conducting final evaluations on the benefits of the turnkey development process.

Project Title:	**Turnkey Demonstration Project Evaluation Oversight**		
Project Number:	MD-90-7001-02		
Grantee/Contractor:	Booz-Allen and Hamilton, Inc. 4330 East-West Highway Bethesda, MD 20814-4455		
Principal Investigator:	Donald Schneck	*Telephone:*	(215) 496-8400
FTA Project Manager:	Sal Caruso, TTS-10	*Telephone:*	(202) 366-0217
Funding Source:	Section 26	*Funding:*	$200,000
Start Date:	May 1994	*Estimated Completion:*	May 1995

Description: This project provides the FTA with support in the implementation and management of the Turnkey Demonstration Program for the San Juan Tren Urbano Rail system and the Baltimore Light Rail Extension. The project effort includes the following tasks: 1) developing a project evaluation action plan: 2) compiling data on similar non-turnkey transit projects for comparative analysis; 3) reviewing major technical areas of the demonstration projects; and 4) conducting final evaluations for the FTA on the benefits of the turnkey development process.

Project Title:	**Turnkey Demonstration Project Oversight**		
Project Number:	MA-90-7012		
Grantee/Contractor:	Volpe National Transportation Systems Center Kendall Square Cambridge, Massachusetts 02142		
Principal Investigator:	Douglass Lee	*Telephone:*	(617) 494-2762
FTA Project Manager:	Edward Thomas, TTS-10	*Telephone:*	(202) 366-0264
Funding Source:	Section 26	*Funding:*	$100,000
Start Date:	Septermber 1994	*Estimated Completion:*	October 1995

Description: ISTEA calls for solicitation of turnkey demonstration projects as precursors to guidelines on turnkey development. To produce the guidelines on turnkey development, each phase of the turnkey projects must be evaluated. This project is designed to: 1) develop detailed plans of action for oversight evaluations; 2) collect, review and analyze documents related to the turnkey projects including management plans, procurement documents, and contracts; 3) monitor progress of projects; 4) analyze data for trends and anomalies; and 5) prepare a final evaluations report. All project reports and summations will address project management practices and procedures, engineering, construction financing, scheduling, cost controls, change order procedures and practices, and subcontracting.

Project Title:	**Turnkey Demonstration Program Support**		
Project Number:	CA-26-0009-01		
Grantee/Contractor:	Gardner Consulting Planners, Inc. 22010 South Wilmington Avenue, Suite 300 Carson, California 90745		
Principal Investigator:	Emile Gardner	***Telephone:***	(310) 522-9584
FTA Project Manager:	Sal Caruso, TTS-10	***Telephone:***	(202) 366-0264
Funding Source:	Section 26	***Funding:***	$75,000
Start Date:	September 1994	***Estimated Completion:***	March 1995

Description: This project supports the FTA in the implementation and management of the Turnkey Demonstration Program. The project assists the FTA in evaluating the efficiencies of the turnkey procurement method vis-a-vis traditional procurement methods in terms of cost effectiveness, risk management, project management and other factors. Project activities include technical assistance, outreach activities, project documentation and evaluation support. Specifically, the project is designed to develop evaluation plans for the West Coast demonstration projects and to provide technical assistance to transit agencies that are sponsoring the Turnkey Demonstration Program.

Policy Analysis and Evaluation

Project Title:	**BART Impact Program Update**		
Project Number:	CA-26-6002		
Grantee/Contractor:	University of California, Berkeley Institute of Urban and Regional Development Berkeley, California 94720		
Principal Investigator:	Elizabeth Deakin	*Telephone:*	(510) 642-4749
FTA Project Manager:	Richard Steinmann, TBP-10	*Telephone:*	(202) 366-4060
Funding Source:	Section 26	*Funding:*	$200,000
Start Date:	July 1992	*Estimated Completion:*	December 1995

Description: Information on the impacts of major transit investments is needed for use by local planners and decisionmakers involved in major investment projects. This is the latest study to focus on the impact of the Bay Area Rapid Transit (BART) system since the BART Impact Program was completed in 1978. Specifically, the study focuses on the transportation system, regional travel, land use, and the social and political environments in which these impacts occurred. The study's product will be a series of reports covering the impacts in each area and an overall summary report. The results will be used in reporting to Congress on the impacts of major transit investments, in support of budget proposals, and in developing new major investment criteria.

Project Title:	**Conference on Intermodal Planning**		
Project Number:	DC-26-6005		
Grantee/Contractor:	National Research Council Transportation Research Board 2101 Constitution Avenue, NW Washington, DC 20418		
FTA Project Manager:	Robert Owens, TBP-10	*Telephone:*	(202) 366-4060
Funding Source:	Section 26	*Funding:*	$120,000
Estimated Completion:	December 1994		

Description: This second conference on intermodal planning titled *Intermodalism: Making the Case, Making It Happen* was held December 7-9, 1994, in New Orleans, Louisiana. Over 600 public and private sector representatives from transit, aviation, rail, shipping, and highways attended and participated in the meeting which highlighted the best case practices in intermodalism and the ISTEA intermodal philosophy as it relates to the day-to-day operations of MPOs, State DOTs and planning officials. Some of the topics addressed at the meeting included: A Report from the National Commission on Intermodal Transportation by Commission Members; Making a Case for Intermodalism, Intermodal Hub Facilities and Corridors; MPOs Re-Engineering for Intermodalism; Intermodalism: A Dynamic Process, New Technologies, Partnerships, and Procedures; and Transit: Planning Services and Terminals for Customers: An Industry Cross-Section. A conference proceedings report will be available in the Spring of 1995.

Project Title:	**Conference of Minority Transportation Officials: Coordination of the Congressional Black Caucus Transportation Brain Trust**		
Project Number:	DC-26-7005		
Grantee/Contractor:	Conference of Minority Transportation Officials 1330 Connecticut Avenue, NW, Suite 320 Washington, DC 20036		
Principal Investigator:	Beverly M. Coleman	***Telephone:***	(202) 775-1118
FTA Project Manager:	Gwendolyn Cooper, TTS-10	***Telephone:***	(202) 366-0198
Funding Source:	Section 26	***Funding:***	$25,000
Start Date:	February 1994	***Estimated Completion:***	March 1995

Description: The Conference of Minority Transportation Officials (COMTO) aims to foster better conditions and circumstances for representatives of minority groups striving to achieve meaningful representation and benefits through active participation in transportation programs and activities. This project enables COMTO to coordinate the activities of the Transportation Braintrust--a think tank of transportation professionals, academicians, and citizens that explore and research issues impacting the minority citizenry. The effort explores how the transit industry can improve the delivery of transit services to minorities and how minority groups can better identify and articulate their transit needs. COMTO provides ongoing support for seminars and workshops and publishes and disseminates information on various conference proceedings and on ISTEA issues impacting minority groups nationwide. Basically, COMTO will serve as a minority resource center to elevate minority groups' understanding of transit opportunities and benefits to an action-oriented level of participation.

Project Title:	**Community Empowerment and the ISTEA Process**		
Project Number:	DC-26-6026		
Grantee/Contractor:	Surface Transportation Policy Project 1400 16th Street, NW Washington, DC 20036		
Principal Investigator:	Laura Olsen	***Telephone:***	(202) 939-3470
FTA Project Manager:	John A. Witmer, TBP-10	***Telephone:***	(202) 366-4060
Funding Source:	Section 26	***Funding:***	$200,000
Start Date:	September 1994	***Estimated Completion:***	October 1995

Description: This project develops strategies that empower communities to actively participate in and influence the ISTEA planning and programming process and to evaluate and document the outcome as case studies highlighting the successes and barriers encountered. The study focuses on five regions with state or local non-profit organizations capable of becoming involved in the ISTEA process. Case studies will be performed by the following organizations: People Organized in Defense of the Earth and Resources in Austin, Texas; Metropolitan Energy Center in Kansas City, Missouri; Neighborhood Transportation Network in Minneapolis, Minnesota; Environmental Justice Alliance in New York, New York; and Montana Transportation Project in Bozeman, Montana. Case studies may be used to determine application elsewhere in the country.

Policy Analysis and Evaluation

Project Title:	**Conference on Social Equity, Environmental Justice and Transportation**		
Project Number:	DC-26-6025		
Grantee/Contractor:	Surface Transportation Policy Project 1400 16th Street, NW, Suite 300 Washington, DC 20036		
Principal Investigator:	Laura Olsen	*Telephone:*	(202) 939-3470
FTA Project Manager:	William B. Menczer, TBP-10	*Telephone:*	(202) 366-4060
Funding Source:	Section 26	*Funding:*	$90,000
Start Date:	September 1994	*Estimated Completion:*	February 1995

Description: The purpose of this project is to conduct the *Conference on Social Equity, Environmental Justice and Transportation* in November 1994. The conference brings together Federal transportation officials and representatives from social justice, civil rights, environmental, and grassroots community groups to explore issues that include: the impacts of siting transportation facilities and services in low-income and minority neighborhoods; social equity in transportation investments; relationships between transportation and the environment, land use, and the economy; social justice in transportation decisionmaking; and the relationship between transportation and the provision of government services. Participant inputs and conference findings will be used to address the President's Executive Order on Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations.

Project Title:	**Congestion Pricing**		
Project Number:	IT-26-6009		
Grantee/Contractor:	National Research Council Transportation Research Board 2101 Constitution Avenue, NW Washington, DC 20418		
Principal Investigator:	Steve Goodwin	*Telephone:*	(202) 334-3255
FTA Project Manager:	Fred Williams, TBP-10	*Telephone:*	(202) 366-1696
Funding Source:	Section 26	*Funding:*	$200,000
Start Date:	September 1992	*Estimated Completion:*	October 1994

Description: Current interest in congestion pricing has important impacts on transit in congested corridors. The mere mention of highway pricing brings to public awareness the implicit subsidies to solo driving that undermine transit. The Transportation Research Board and the Commission on Behavioral and Social Sciences and Education, under contract with FTA and FHWA, completed a study of feasibility issues in congestion pricing. Simultaneously, demonstrations of the concept were initiated under the Congestion Pricing Pilot Program. This project will follow-up these efforts in areas important to transit, most notably, the incorporation of transit services in congestion pricing packages and transit use of congestion pricing revenues. This research also focuses on methods to document and capture transit's value to congestion pricing efforts.

Project Title:	**Data Management and Analysis Support for Industry and Policy Analysis**		
Project Number:	MD-26-6002		
Grantee/Contractor:	COMSIS Corporation 8737 Colesville Road, Suite 1100 Silver Spring, Maryland 20910		
Principal Investigator:	Dieter Klinger	*Telephone:*	(202) 588-0800
FTA Project Manager:	Robert Washington, TBP-10	*Telephone:*	(202) 366-1694
Funding Source:	Section 26	*Funding:*	$73,531
Start Date:	December 11994	*Estimated Completion:*	February 1995

Description: This project provides data management support to the FTA Policy Office. The support includes: acquisition and management of large databases; development of programs to manipulate databases; development of programs to respond to analytical inquiries from FTA; presentation of data in tabular and high quality graphic form; and guidance to FTA on short and long term management issues. This task will gather, organize, and analyze information for the 1995 Section 3(j) and Section 308 Reports to Congress.

Project Title:	**Demographic Trends and Changing Worktrip Behavior**		
Project Number:	DC-26-6020		
Grantee/Contractor:	Joint Center for Political and Economic Studies 1090 Vermont Avenue, NW, Suite 1100 Washington, DC 20005-4961		
Principal Investigator:	Barbara O'Hare	*Telephone:*	(202) 789-3500
FTA Project Manager:	John Day, TBP-10	*Telephone:*	(202) 366-1671
Funding Source:	Section 26	*Funding:*	$300,000
Start Date:	October 1993	*Estimated Completion:*	To be Determined

Description: This project is a detailed analysis of journey-to-work data from the 1990 census on transit use and commuter behavior. It updates a similar analysis performed on the 1980 census data by the Joint Center for Political Studies. Unlike a parallel study being conducted by the department, this research focuses on urbanized areas and on transit use. In addition, cross-sectional and longitudinal analyses are being conducted for selected urbanized areas.

Project Title:	**Federal Transit Administration's Strategic Plan**		
Project Number:	CA-26-2000		
Grantee/Contractor:	Gardner Consulting Planners 22010 South Wilmington Avenue, Suite 300 Carson, California 90745		
Principal Investigator:	Emile Gardner	***Telephone:***	(310) 522-9584
FTA Project Manager:	Timothy B. Wolgast, TAD-10	***Telephone:***	(202) 366-4022
Funding Source:	Section 26	***Funding:***	$97,644
Start Date:	April 1994	***Estimated Completion:***	January 1995

Description: During the final phase in the development of the FTA Strategic Plan, a major effort to coordinate industry focus group meetings is necessary to inform the transit industry and other FTA customers about the Strategic Plan. This project enables the contractor to provide the necessary personnel, material, and services to produce and deliver a reproducible copy of the Strategic Plan to the FTA. The project effort includes the planning, coordination, and conducting of focus group sessions with FTA customers in conjunction with industry conferences and workshops. Based on analysis of the comments and information from the focus group sessions, a comprehesive report will be prepared and delivered to the FTA.

Project Title:	**Flexible Innovative Funding Workshops**		
Project Number:	DC-26-6018-01 and DC-26-6019-01		
Grantee/Contractor:	American Public Transit Association 1201 New York Avenue, NW Washington, DC 20005 and Government Finance Officers Association 1750 K Street, NW Washington, DC 20006		
Principal Investigator:	Richard Weaver, Patricia Tigue	***Telephone:***	(202) 898-4109
FTA Project Manager:	Richard Steinmann, TBP-10	***Telephone:***	(202) 366-4060
Funding Source:	Section 26	***Funding:***	$302,826
Start Date:	July 1993	***Estimated Completion:***	July 1995

Description: Transit operators and local officials need to be trained in the planning, project development, and project delivery process to be better able to take advantage of the new flexible funding opportunities offered by ISTEA. This project provides second year support for a three year effort to develop and conduct a series of workshops on flexible and innovative funding under ISTEA. In the first year of the project, the American Public Transit Association (APTA) and the Government Finance Officers Association (GFOA) developed the design for the workshop. This second year funding covers a series of eight workshops--three in concert with APTA meetings, three with GFOA meetings, and two in stand-alone locations. The workshops are designed to assist and inform state and local agencies, metropolitan planning organizations, transit operator officials and staff, and others of the flexible funding opportunities available in ISTEA.

Project Title:	**Federal Transit Administration's Strategic Plan**		
Project Number:	DC-26-6021		
Grantee/Contractor:	International Downtown Association 915 15th Street, NW, Suite 900 Washington, DC 22005		
Principal Investigator:	Richard Bradley	***Telephone:***	(202) 783-4963
FTA Project Manager:	Betty F. Jackson, TBP-10	***Telephone:***	(202) 366-1730
Funding Source:	Section 26	***Funding:***	$25,000
Start Date:	November 1993	***Estimated Completion:***	March 1994

Description: This project provides technical support for the development of the FTA Strategic Plan. The specific types of technical support provided include: developing workshop agendas; interviewing members of the FTA Strategic Planning team; organizing and conducting sessions on team building and the strategic planning process; and developing and preparing reports and summaries of these activities.

Project Title:	**ISTEA Collaborative Decisionmaking Process**		
Project Number:	DC-26-6013		
Grantee/Contractor:	National Association of Regional Councils 1700 K Street, NW, 13th Floor Washington, DC 20006		
Principal Investigator:	Donald Ostrander	***Telephone:***	(202) 457-0710
FTA Project Manager:	William B. Menczer, TBP-10	***Telephone:***	(202) 366-4060
Funding Source:	Section 26	***Funding:***	$300,000
Start Date:	February 1993	***Estimated Completion:***	February 1995

Description: The purpose of this project is to develop new flexible collaborative decisionmaking strategies that allow metropolitan planning organizations (MPOs), new stakeholders in the transportation planning process, and the communities that MPOs serve to collaborate more effectively throughout the process. The project is designed to develop technical assistance materials which MPOs can use to implement the public participation requirements contained in the ISTEA, and the implementing amendments to the Planning Regulations. New stakeholders include the business communities, minorities, persons with disabilities, and citizens interested in transportation by virtue of their concerns about the environment, land use patterns, and other factors related to the quality of urban area life. The final report, a public participation manual describing a collaborative decisionmaking process, will include the demonstration results of this process conducted at the two MPOs.

Policy Analysis and Evaluation

Project Title:	**MARTA Impact Program**		
Project Number:	GA-26-6001		
Grantee/Contractor:	Atlanta Regional Commission 3715 Northside Parkway 200 Northcreek, Suite 300 Atlanta, Georgia 30327		
Principal Investigator:	John A. Petty	***Telephone:***	(404) 364-2588
FTA Project Manager:	John A. Witmer, TBP-10	***Telephone:***	(202) 366-4060
Funding Source:	Section 26	***Funding:***	$457,700
Start Date:	June 1993	***Estimated Completion:***	July 1996

Description: The purpose of this project is to study the long term impacts of the Metropolitan Atlanta Rapid Transit Authority (MARTA) system. The results of the study will be used at the Federal level in formulating national transit policy and developing major investment funding criteria, and at the local level in developing project proposals. This 3-year effort will study the impacts of MARTA in the following areas: 1) the transportation system, including changes in travel demand, travel patterns, travel times, and transit ridership; 2) economic activity, including housing and commercial real estate prices, population and employment densities; 3) crime, including rates on and adjacent to the system and the effect on ridership; and 4) local and state public policy. This is the second project to study the impacts of major FTA New Start investments. The first study, San Francisco's BART system, will be completed in the latter part of 1995.

Project Title:	**Mogridge-Lewis Corridor Studies**		
Project Number:	MD-06-0143		
Grantee/Contractor:	Hickling-Lewis-Brod, Inc. 8720 Georgia Avenue, Suite 1005 Silver Spring, Maryland 20910		
Principal Investigator:	David Lewis	***Telephone:***	(301) 565-0391
FTA Project Manager:	Fred Williams, TBP-10	***Telephone:***	(202) 366-1696
Funding Source:	Section 26	***Funding:***	$51,467
Start Date:	November 1993	***Estimated Completion:***	December 1993

Description: This amendment is added for the repeat measurement of two corridors where travel was disturbed by events beyond the contractor's control. The project includes travel time studies between transit and highways in congested urban corridors to demonstrate the interaction between the modes. The project supports development of an urban transportation performance monitoring system.

Policy Analysis and Evaluation

Project Title:	**Mogridge-Lewis Corridor Studies**		
Project Number:	MD-26-6001		
Grantee/Contractor:	Hickling-Lewis-Brod, Inc. 8720 Georgia Avenue, Suite 1005 Silver Spring, Maryland 20910		
Principal Investigator:	David Lewis	***Telephone:***	(301) 565-0391
FTA Project Manager:	Fred Williams, TBP-10	***Telephone:***	(202) 366-1696
Funding Source:	Section 26	***Funding:***	$775,000
Start Date:	December 1994	***Estimated Completion:***	December 1995

Description: This project documents transit infrastructure investments that increase speeds on all modes and promote general economic productivity. Working toward an intermodal urban transportation performance monitoring system, the project identifies intermodal corridors and begins ongoing collection of performance data. The project effort includes development of methods to assess transit performance on a functional classification basis and to develop service level concepts. This project is designed to promote multimodal infrastructure decisionmaking at all levels of government. It contributes to the transit/intermodal infrastructure planning toolbox locally and nationally.

Project Title:	**National Strategic Corridor Studies**		
Project Number:	MD-26-6001		
Grantee/Contractor:	Hickling-Lewis-Brod, Inc. 8720 Georgia Avenue, Suite 1005 Silver Spring, Maryland 20910		
Principal Investigator:	David Lewis	***Telephone:***	(301) 565-0391
FTA Project Manager:	Fred Williams, TBP-10	***Telephone:***	(202) 366-1696
Funding Source:	Section 26	***Funding:***	$300,000
Start Date:	January 1995	***Estimated Completion:***	December 1995

Description: This project continues work on intermodal performance measurement to determine what transit contributes to systemwide performance. If it is determined that high speed transit increases speeds on parallel highways, this project will initiate ongoing intermodal performance monitoring. Congested corridors will be identified and periodic travel speed measurements will be established. In addition, the internal economic performance of corridor transit services will be monitored. This project promotes multimodal decisionmaking at all levels of government.

Policy Analysis and Evaluation

Project Title:	**National Transportation System**		
Project Number:	DC-26-6023		
Grantee/Contractor:	Department of Transportation Office of the Secretary 400 7th Street, SW Washington, DC 20590		
FTA Project Manager:	Betty F. Jackson, TBP-10	***Telephone:***	(202) 366-1730
Funding Source:	Section 26	***Funding:***	$8,172
Start Date:	May 1994	***Estimated Completion:***	October 1994

Description: The National Transportation System provides an economically efficient and environmentally sound system that establishes the foundation for the Nation to compete in the global economy and moves people and goods in an energy efficient manner. This project is a two phase interagency agreement with the Office of the Secretary of Transportation to provide technical assistance for the development of the National Transportation System. Project activities include conducting public outreach activities, data analysis, mapping, and delivering a report that describes the system.

Project Title:	**Policy Workshops**		
Project Number:	DC-26-6028		
Grantee/Contractor:	Tonya, Inc. 1000 Vermont Avenue, Fifth Floor Washington, DC 20005		
Principal Investigator:	Barbara Murdock	***Telephone:***	(202) 289-8100
FTA Project Manager:	Robert Washington, TBP-10	***Telephone:***	(202) 366-1694
Funding Source:	Section 26	***Funding:***	$100,000
Start Date:	October 1995	***Estimated Completion:***	February 1996

Description: This project provides for a series of one-day policy workshops that address key emerging transit issues. Workshop issue papers will be developed to increase the knowledge base and distributed to the transit industry, metropolitan planning organizations, states, and others interested in transit policy issues. Each symposium will address technical problems and solutions and make recommendations for additional analysis.

Policy Analysis and Evaluation

Project Title:	**Public Affiliates Program**		
Project Number:	MA-26-6003		
Grantee/Contractor:	Massachusetts Institute of Technology Public Affiliates Program, Center for Transportation Studies 77 Massachusetts Avenue, Room 1-153 Cambridge, Massachusetts 02139-4307		
Principal Investigator:	Thomas F. Humphrey	***Telephone:***	(617) 253-4978
FTA Project Manager:	William B. Menczer, TBP-10	***Telephone:***	(202) 366-4060
Funding Source:	Section 26	***Funding:***	$15,000
Start Date:	July 1994	***Estimated Completion:***	June 1995

Description: This project supports the Public Affiliates Program (PAP) of the Center for Transportation Studies (CTS) at the Massachusetts Institute of Technology (MIT). This international multimodal program is designed to focus on the challenges facing public agencies, namely, metropolitan planning organizations, transportation departments and authorities, international federations, ministries, and finance organizations. PAP provides forums for discussion, research and cooperative problem-solving among the public leaders in the transportation sector. PAP develops new research topics and cooperative research projects among the participants as well as between participants and the private sector affiliates. The project provides FTA with priority access to MIT and to all of CTS activities including participation in seminars for presentations on industry issues; attendance at workshops, annual meetings, and industry forums for senior decisionmakers.

Project Title:	**Social Equity Research on Historical Transportation Investments**		
Project Number:	DC-26-6024		
Grantee/Contractor:	Surface Transportation Policy Project 1400 16th Street, NW, Suite 300 Washington, DC 20036		
Principal Investigator:	Don Chen	***Telephone:***	(202) 939-5471
FTA Project Manager:	Robert Washington, TBP-10	***Telephone:***	(202) 366-1694
Funding Source:	Section 26	***Funding:***	$200,000
Start Date:	September 1994	***Estimated Completion:***	March 1996

Description: ISTEA has introduced new opportunities to invest in transit and to encourage transit oriented land use development. This project will be conducted by the Surface Transportation Policy Project, the Center for Neighborhood Technology (Chicago), and the Environmental Defense Fund. The study examines the impacts of past transportation investments on geography, income, and race. It explores the relationship of transportation investment patterns to transportation policy, land use patterns, and transit base erosion. Investment patterns of the past 20 years will be examined to help identify those who have paid for the transportation infrastructure and those who have benefitted. The final report will include the research results of the three representative cities studied.

Project Title:	**Extension of the Charter Bus Demonstration Program**		
Project Number:	VA-26-0002-06		
Grantee/Contractor:	KPMG Peat Marwick 8150 Leesburg Pike, Suite 800 Vienna, Virginia 22182		
Principal Investigator:	Marta Jewell	*Telephone:*	(703) 442-0030
FTA Project Manager:	Stewart McKeown, TTS-10	*Telephone:*	(202) 366-0244
Funding Source:	Section 26	*Funding:*	$100,000
Start Date:	June 1994	*Estimated Completion:*	January 1995

Description: The Charter Bus Demonstration program was initiated in 1993 as a result of a specific requirement in the ISTEA of 1991. Section 3040 of the Federal Transit Act (Act), as amended, directs the FTA to conduct a demonstration to revise charter bus regulations. The Act requires FTA to prepare and submit, by December 18, 1994, a report to Congress documenting the results of the demonstration, the effectiveness of the regulations, and any proposed recommendations to improve current charter service regulations. The new regulations, if approved, permit transit operators to provide charter services for the purpose of meeting the transportation needs of governmental, civic, charitable, and other community activities which otherwise would not be served in a cost-effective and efficient manner. This project extends the demonstration program to completion. It will validate and evaluate the data collected at the demonstration sites and prepare a final report documenting the results and assessing the need to revise existing Federal charter bus regulations.

Project Title:	**Livable Communities Program Support and Town Meetings**		
Project Number:	CA-26-0009-03		
Grantee/Contractor:	Gardner Consulting Planners 22010 South Wilmington Avenue, Suite 300 Carson, California 90745		
Principal Investigator:	Emile Gardner	*Telephone:*	(310) 522-9584
FTA Project Manager:	Effie S. Stallsmith, TTS-10	*Telephone:*	(202) 366-5653
Funding Source:	Section 26	*Funding:*	$224,970
Start Date:	September 1994	*Estimated Completion:*	October 1995

Description: The FTA is promoting a strong link between transit and community needs, namely--support to transit projects that strengthen the relationship between transit and community development, stimulate greater community involvement in the development process, and increase access to community services and jobs. This project provides for: 1) production and dissemination of literature, videos and other materials related to the Livable Communities Initiative; 2) development and articulation of project concepts; and 3) assistance in the planning and conducting of town meetings that bring together officials and representatives of Federal, state and local governments, community groups, metropolitan planning organizations, transit agencies and private sector organizations. This project improves the overall efficiency of implementing the Livable Communities Initiative.

Project Title:	**Implementing Transit-Based Housing on Selected Transit Lines**		
Project Number:	CA-26-7003		
Grantee/Contractor:	Regents of the University of California Institute of Urban and Regional Development 336 Sproul Hall Berkeley, CA 94720		
Principal Investigator:	Robert Cervero	***Telephone:***	(510) 642-4874
FTA Project Manager:	Effie Stallsmith, TTS-20	***Telephone:***	(202) 366-5653
Funding Source:	Section 26	***Funding:***	$75,000
Start Date:	August 1994	***Estimated Completion:***	October 1995

Description: This project is a continuation of the FTA effort to determine how and if transit can promote housing development through land use policies at heavy and light rail stations. The project focuses on implementing transit-based housing on selected transit lines throughout the United States. The National Transit Access Center of the University of California will work with the staff and boards of three rail transit systems throughout the country to design and implement action plans for transit-based developments. These projects help meet the ISTEA requirement that land use policies and economic development be considered as criteria for new start project evaluations. The National Transit Access Center has just completed and documented Part 1 of this project in a report titled *Transit-Based Residential Developments in the United States: A Review of Recent Experiences.*

Project Title:	**National Benefits of Livable Communities**		
Project Number:	MD-26-6001-01		
Grantee/Contractor:	Hickling-Lewis-Brod, Inc. 8720 Georgia Avenue, Suite 1005 Silver Spring, Maryland 20910		
Principal Investigator:	Stephen Lewis-Workman	***Telephone:***	(301) 565-0391
FTA Project Manager:	Fred Williams, TBP-10	***Telephone:***	(202) 366-1696
Funding Source:	Section 26	***Funding:***	$217,520
Start Date:	September 1994	***Estimated Completion:***	November 1995

Description: Based on the policy analytical framework developed by the FTA staff, this project identifies and estimates the values of livable community benefits of transit services and facilities. The benefits of livable communities include direct benefits to transit customers and variations in the value of those direct benefits according to customer characteristics.

Project Title:	**Seminar on Engineering and Planning for Neo-Traditional Neighborhoods**		
Project Number:	DC-26-7012		
Grantee/Contractor:	Institute of Transportation Engineers, Inc. 525 School Street, SW Washington, DC 20024		
Principal Investigator:	Mark Norman	*Telephone:*	(202) 554-8050
FTA Project Manager:	Joseph Goodman, TTS-10	*Telephone:*	(202) 366-0240
Funding Source:	Section 26	*Funding:*	$25,000
Start Date:	July 1994	*Estimated Completion:*	October 1994

Description: The purpose of this project was to develop and conduct a two day seminar on *Engineering and Planning for Neo-Traditional Neighborhoods*. The seminar was held on July 14-15, 1994, in Portland, Oregon. Portland's commitment to livable communities, neo-traditional neighborhoods, and downtown transit malls made it an ideal venue for this seminar. The seminar agenda included the following topics: historical overview of neo-traditional neighborhoods, planning, design, safety and implementation considerations. The seminar's highlight was a tour of Portland's traditional neighborhoods. The seminar provided transportation engineers and planners with a working knowledge of the philosophical framework and the practical aspects of transportation in neo-traditional neighborhoods.

Project Title:	**Team Transit**		
Project Number:	MN-26-0002-01		
Grantee/Contractor:	Metropolitan Transit Commission 560-6th Avenue North Minneapolis, Minnesota 55411-4398		
Principal Investigator:	Aaron Isaacs	*Telephone:*	(612) 349-7728
FTA Project Manager:	Bert Arrillaga, TTS-10	*Telephone:*	(202) 366-0231
Funding Source:	Section 26	*Funding:*	$500,000
Start Date:	March 1994	*Estimated Completion:*	May 1995

Description: Since it started in October 1991, Team Transit has facilitated the development of 22 miles of exclusive bus lanes on Minnesota Department of Transportation highways, plus 2.5 miles of bus lanes in downtown St. Paul. Dozens of other improvements are in progress, such as: ramp meter bypasses, bus lanes, and larger park-and-ride-lots. This project encompasses the development of the Metropolitan Transit Commission's Team Transit Program which provides for improved transit services through innovative intergovernmental partnerships. The program serves to increase the speed and effectiveness of transit and ridesharing vehicles by improving roadways and other facilities. Partners in Team Transit include the Metropolitan Transit Commission, Minnesota Department of Transportation Metropolitan Council, Regional Transit Board, and the Cities of Minneapolis and St. Paul. Team Transit is designed to tear down traditional barriers to interagency cooperation.

Rural and Specialized Transit

Project Title:	**Assessment of Transportation and Its Impact Upon the Delivery of Health Care Services in Non-Urbanized Areas of Alabama, Georgia, Louisiana, and Mississippi**		
Project Number:	DC-26-7015		
Grantee/Contractor:	The National Council of Negro Women 1001 G Street, NW Washington, DC 20001		
Principal Investigator:	Fannie M. Munlin	***Telephone:***	(212) 687-5870
FTA Project Manager:	Roger Tate, TTS-30	***Telephone:***	(202) 366-0235
Funding Source:	Section 26	***Funding:***	$149,781
Start Date:	September 1994	***Estimated Completion:***	October 1995

Description: The National Council of Negro Women (NCNW) intends to study and assess the transportation needs of low-income families in selected non-urbanized areas of Alabama, Georgia, Louisiana, and Mississippi. The research aims to determine how well public and specialized transportation services are being used by the residents for travel to health care facilities, and how the DOT and the DHHS can effect improvements in transportation and health care services. The NCNW has a history of managing national programs that address issues of health, employment, transportation, child care and others.

Project Title:	**DOT/DHHS Coordinating Council National Roundtable**		
Project Number:	MA-26-0002-06		
Grantee/Contractor:	EG&G Dynatrend 24 New England Executive Park Burlington, Massachusetts 01803-5203		
Principal Investigator:	Lawrence J. Harman	***Telephone:***	(617) 272-0300
FTA Project Manager:	Roger Tate, TTS-30	***Telephone:***	(202)366-0235
Funding Source:	Section 26	***Funding:***	$69,995
Start Date:	April 1994	***Estimated Completion:***	September 1994

Description: The Departments of Transportation and Health and Human Services (DOT/DHHS) Joint Coordinating Council on Human Service Transportation will conduct the Second National Coordination Roundtable Meeting on the coordination of public transportation services and human service transportation programs. The Roundtable will bring together members of the DOT/DHHS Coordinating Council, DOT and DHHS officials from states with exemplary coordination programs, and representatives of national organizations with similar interests. The Roundtable agenda will include discussion of successes and issues, a review of peer-state programs to reproduce the coordination strategies developed by these states, and organization of a workshop on *Examples of Successful State-Level Coordination Prgrams.* A proceedings report summarizing the Roundtable meeting will be prepared.

Regional Mobility

Project Title:	**Multi-State Transportation Coordination Initiative**		
Project Number:	MT-26-7000		
Grantee/Contractor:	Montana Department of Transportation 2701 Prospect Avenue Helena, Montana 5920-1001		
Principal Investigator:	Janet Winston	*Telephone:*	(406) 444-4210
FTA Project Manager:	Roger Tate, TTS-30	*Telephone:*	(202) 366-0235
Funding Source:	Section 26	*Funding:*	$80,000
Start Date:	September 1994	*Estimated Completion:*	October 1995

Description: The State of Montana along with the States of Wyoming, North and South Dakota, Nevada, and Utah will develop a Region 8 Transportation Consortium. The Consortium of states will identify both public, private, and human service transportation activities within each state and develop a methodology to enhance programmatic transportation coordination within the region. Project activities include a survey of the region's Health and Human Services coordinators and the region's Departments of Transportation to determine the level of state coordination. The project will review funding sources of local agencies, program responsibilities, and planning activities. The final product will include preparations of a final report and workshop agenda. This demonstration will serve as a model to others interested in learning more effective methods to coordinate transportation.

Project Title:	**Rural Transit Assistance Program National Program**		
Project Number:	IL-26-7001		
Grantee/Contractor:	The American Public Works Association 1313 East 60th Street Chicago, Illinois 60637		
Principal Investigator:	Beth Dennison	*Telephone:*	(202) 393-2792
FTA Project Manager:	Roger Tate, TTS-30	*Telephone:*	(202) 366-0235
Funding Source:	Section 26	*Funding:*	$705,000
Start Date:	September 1994	*Estimated Completion:*	September 1997

Description: The American Public Works Association (APWA) will continue to provide technical support to the FTA National Rural Transit Assistance Program (RTAP), the RTAP Review Board, and the State RTAP program. The RTAP National Program provides a variety of quality technical assistance products and training services. This project gives serious consideration to the coordination of transportation providers with health and human services in cooperation with the DHHS Community Transit Assistance Program, the FTA Multi-State Transit Assistance Program, and the FHWA Local Technical Assistance Program. APWA will continue to administer the program's outreach activities, namely: the RTAP National Resource Center, preparation of training materials, and peer-to-peer technical assistance to state, local, and rural transit operators.

Project Title:	**Transit Ambassadors Program**		
Project Number:	DC-26-7019		
Grantee/Contractor:	District Of Columbia Service Corp 1511 K Street, NW, Suite 949 Washington, DC 20005		
Principal Investigator:	Keith Canty	***Telephone:***	(202) 347-4136
FTA Project Manager:	Pauline A. D'Antignac, TTS-30	***Telephone:***	(202) 366-0234
Funding Source:	Section 26	***Funding:***	$135,000
Start Date:	September 1994	***Etimated Completion:***	October 1995

Description: The FTA manages the Department of Transportation's Transit Ambassadors Program--one of the five program areas of the National and Community Service Trust Act of 1993 that is being administered by AmeriCorps National Service Corporation. The purpose of the Transit Ambassadors Program is to establish a relationship between transit providers and community service organizations to help train and accompany the elderly and persons with disabilities to safely use the public transportation system in their community. This project supports the District of Columbia Service Corp (DCSC) efforts to implement AmeriCorp's Transit Ambassadors Program. The program addresses the needs of the homebound elderly, persons with disabilities or AIDS, persons at eldercare centers and others by training and escorting them, via transit, to and from their appointments at medical centers, hospitals, etc. DCSC will train and employ 20 innercity youths, 17 years of age or older, to provide these services to this target group. In addition, Transit Ambassadors will go out into the community, identify obstacles that prevent elderly persons and persons with disabilities from safely and easily using public transportation and will work with local transit authorities to remove these obstacles.

Project Title:	**Transit Ambassadors Program**		
Project Number:	TX-26-7000		
Grantee/Contractor:	Fort Worth Transportation Authority 1813 East Lancaster Fort Worth, Texas 76103		
Principal Investigator:	LaVerna Mitchell	***Telephone:***	(817) 871-6206
FTA Project Manager:	Pauline A. D'Antignac, TTS-30	***Telephone:***	(202) 366-0234
Funding Source:	Section 26	***Funding:***	$50,000
Start Date:	September 1994	***Estimated Completion:***	October 1995

Description: The Fort Worth Transportation Authority (Authority) will implement the FTA Transit Ambassadors Program. The project establishes a working relationship between transit providers and community service organizations to help elderly and persons with disabilities to safely ride public transit. The Authority provides employment and educational opportunities for at-risk youths, 17-25 years of age, to participate in the program. The Authority will employ and train six innercity youths as Transit Ambassadors to assist and train elderly and persons with disabilities to safely and effectively use public transit.

Project Title:	**Transit Ambassadors Program**		
Project Number:	MD-26-7014		
Grantee/Contractor:	Community Building in Partnership, Inc. Sandtown-Winchester 1137 N. Gilmore Street Baltimore, Maryland 21217		
Principal Investigator:	Diana Spencer	*Telephone:*	(410) 728-8307
FTA Project Manager:	Pauline A. D'Antignac, TTS-30	*Telephone:*	(202) 366-0234
Funding Source:	Section 26	*Funding:*	$50,000
Start Date:	September 1994	*Estimated Completion:*	October 1995

Description: The Community Building in Partnership, Inc. will implement the FTA Transit Ambassadors Program as a component to the DOT sponsored Urban Youth Corps program in Sandtown. The Sandtown Transit Ambassadors Program addresses community needs by: providing residents with specific information on how to effectively and safely use public transportation; providing employment and educational opportunities for at-risk youth, 17-25 years of age; and increasing awareness of transit benefits. Sandtown will employ and train four innercity youths as Transit Ambassadors to assist the elderly and disabled persons in how to locate bus and metro stops, and how to use public transportation effectively and safely. In addition, Transit Ambassadors will be trained to safely accompany elderly and disabled persons to and from medical facilities and other engagements.

Project Title:	**Twelfth National Conference on Rural Public Transportation**		
Project Number:	IA-26-7000		
Grantee/Contractor:	Iowa Department of Transportation Park Fair Mall, 100 East Euclid, Suite 7 Des Moines, Iowa 50313		
Principal Investigator:	Michael J. Audino	*Telephone:*	(515) 237-3300
FTA Project Manager:	Elizabeth Solomon, TTS-30	*Telephone:*	(202) 366-0242
Funding Source:	Section 26	*Funding:*	$45,000
Start Date:	August 1994	*Estimated Completion:*	October 1995

Description: The Iowa Department of Transportation (IDOT) will sponsor the *Twelfth National Conference on Rural Public Transportation* to be held in Des Moines, Iowa, on October 22-25, 1995. The IDOT will coordinate all aspects of the conference with the Transportation Research Board's Rural Transportation and Conference Program Committee. The conference focuses on a variety of concerns namely: financing issues, initiatives of the DOT/DHHS Joint Coordinating Council on Human Service Transportation, the Americans with Disabilities Act, substance abuse, training and others. The conference will disseminate information concerning the latest innovations, state-of-the-art technology, and government regulations pertaining to rural transit. The conference serves as a focal point for participants to discuss private sector alternatives with national experts, peer groups, and other interested parties.

Project Title:	**Crisis Intervention/Management Training Program**		
Project Number:	NY-26-7002		
Grantee/Contractor:	Long Island Rail Road Police Department 93-59 183rd Street Hollis, New York 11423		
Principal Investigator:	Detective Charles Wendel	***Telephone:***	(718) 558-3401
FTA Project Manager:	Edith Rodano, TTS-3	***Telephone:***	(202) 366-0191
Funding Source:	Section 26	***Funding:***	$40,000
Start Date:	September 1994	***Estimated Completion:***	September 1995

Description: The need to train transit crews in more effective ways to handle crisis situations became apparent after a shooting on the Long Island Rail Road in December 1993 where six passengers were killed and 17 injured. This project enables transit crews to be trained in handling situations on rail commuter trains involving emotional behavior of riders, weapons or threatened violence and medical emergencies. Instructions and acceptable guidelines will be given for identifying and interfacing with transit riders who appear to be at risk or who are experiencing a crisis. These training modules will be videotaped and made available to other rail passenger systems.

Project Title:	**National Conference for Building a Lead-Safe Future**		
Project Number:	MA-26-7011		
Grantee/Contractor:	Volpe National Transportation Systems Center Kendall Square Cambridge, Massachusetts 02142		
Principal Investigator:	William Hathaway, DTS-38	***Telephone:***	(617) 494-2081
FTA Project Manager:	Carole Ferguson, TTS-3	***Telephone:***	(202) 366-0219
Funding Source:	Section 26	***Funding:***	$10,000
Start Date:	June 1994	***Estimated Completion:***	July 1995

Description: The Nation's older rapid rail transit lines in New York, Chicago, and Philadelphia represent over 100 miles of elevated structures and may be covered with a dangerous, crust-like layer of lead. These structures are in densely populated urban areas and threaten the health of nearby residents, employees and transit riders. This project enabled the FTA to participate in a national conference, *Building a Lead Safe Future*, the second annual conference of the Alliance to End Childhood Lead Poisoning. The conference brought together leaders and practitioners from various disciplines to focus national attention on childhood lead poisoning. The FTA is using the conference materials to inform the three rail systems mentioned above and other transit systems with bridges, tunnels and other older metal structures of the latest practices for the responsible management of lead-painted structures.

Project Title:	**National Leadership Conference on Transit Security**		
Project Number:	PA-26-7001		
Grantee/Contractor:	Southeastern Pennsylvania Transportation Authority (SEPTA) 714 Market Street, 6th Floor Philadelphia, Pennsylvania 19106-2385		
Principal Investigator:	Carol H. Lavoritano	***Telephone:***	(215) 580-7379
FTA Project Manager:	Edith Rodano, TTS-3	***Telephone:***	(202) 366-0191
Funding Source:	Section 26	***Funding:***	$75,000
Start Date:	September 1994	***Estimated Completion:***	October 1995

Description: The National Leadership Roundtable on Transit Security, sponsored by the American Public Transit Association, SEPTA and New Jersey Transit, is conducting a workshop on March 15-17, 1995, to encourage top transit industry leaders to take ownership of transit's role in the Nation's fight against crime. Selected transit heads and chiefs of security police will be invited to the Philadelphia area for two days of professional problem solving. The working sessions will use consensus building techniques to define the problems, identify actions to address the problems, prioritize and translate these actions into a transit security action plan. This plan will help guide the transit industry security efforts in the years ahead.

Project Title:	**Transit Security Regional Workshops**		
Project Number:	MA-26-7010		
Grantee/Contractor:	Volpe National Transportation Systems Center Kendall Square Cambridge, Massachusetts 02142		
Principal Investigator:	William Hathaway, DTS-38	***Telephone:***	(617) 494-2081
FTA Project Manager:	Roy Field, TTS-3	***Telephone:***	(202) 366-0197
Funding Source:	Section 26	***Funding:***	$200,000
Start Date:	June 1994	***Estimated Completion:***	July 1995

Description: This project aims to expand security awareness and competence in handling crime in the transit industry through four regional workshops which are an outgrowth of the SEPTA National Transit Security Workshop. Transit general managers and technical and professional personnel working in the areas of security, safety, and risk management will be targeted to attend the workshops. Each of these workshops will instruct attendees in the principles and techniques of system security. Regional patterns of crime will be emphasized, joint approaches identified and networking among regional safety professionals encouraged. The workshops will inform and energize professional and security personnel in crime and security awareness.

Safety and Security

Project Title:	**Safety and Security Training Courses**		
Project Number:	MA-26-0008-02		
Grantee/Contractor:	Volpe National Transportation Systems Center Kendall Square Cambridge, Massachusetts 02142		
Principal Investigator:	William Hathaway, DTS-38	***Telephone:***	(617) 494-2081
FTA Project Manager:	Judy Meade, TTS-3	***Telephone:***	(202) 366-0188
Funding Source:	Section 26	***Funding:***	$125,000
Start Date:	June 1994	***Estimated Completion:***	July 1995

Description: The FTA training program is directed at personnel from transit systems, State and Federal oversight organizations, transit consultants and transit system sypppliers. This project activates the safety and security resources of the Volpe Center to serve the FTA Safety and Security Program. Volpe Center is providing technical assistance and training to the transit safety community as well as developing and revising training courses, conducting safety workshops, maintaining the safety reporting system, assisting customers in guidelines implementation, disseminating safety information to the transit industry and performing other related activities.

Project Title:	**Safety and Security Training Program**		
Project Number:	OK-26-7000		
Grantee/Contractor:	Transportation Safety Institute 6500 South MacArthur Boulevard Oklahoma City, Oklahoma 73125		
Principal Investigator:	Robert F. Lower	***Telephone:***	(405) 954-3682
FTA Project Manager:	Judy Meade, TTS-3	***Telephone:***	(202) 366-0188
Funding Source:	Section 26	***Funding:***	$450,000
Start Date:	September 1994	***Estimated Completion:***	December 1995

Description: This project enables the Transportation Safety Institute (TSI) to conduct training courses in various transit areas, namely: Bus and Rail Systems, Bus Accident Prevention, Rail and Bus Accident Investigation, Train-the-Trainer, Substance Abuse and Emergency Management, System Security, and Alternative Fuels Safety. These courses comprise the core curriculum of TSI's transit safety and security training program, annually attended by approximately 3,500 transit industry employees. The relationship of TSI, Volpe Center , and the FTA in safety training has been a benefit to the transit industry for years. Many transit safety professionals have participated as associate instructors or students. TSI conducts several safety related courses developed by Volpe Center as part of the FTA's integrated approach to training.

Project Title:	**Safety Management Information Statistics (SAMIS) Performance Indicators**		
Project Number:	MA-26-0009-02		
Grantee/Contractor:	Volpe National Transportation Systems Center Kendall Square Cambridge, Massachusetts 02142		
Principal Investigator:	William Hathaway, DTS-38	*Telephone:*	(617) 494-2081
FTA Project Manager:	Carole Ferguson, TTS-3	*Telephone:*	(202) 366-0219
Funding Source:	Section 26	*Funding:*	$50,000
Start Date:	June 1994	*Estimated Completion:*	July 1995

Description: This project provides for the continuance of SAMIS, a mandatory reporting system containing the mass transit safety data reported by the Nation's transit systems under the FTA Section 15 reporting system. The project will expand the Section 15 reporting requirement and the companion SAMIS report to include security data. The SAMIS report is prepared separately from the Section 15 report and consists of the mass transit accident and casualty statistics reported by transit systems in the U.S. Normalized and trend data are presented along with basic transit accident and casualty statistics.

Project Title:	**Transit Safety and Security Bulletin Board**		
Project Number:	MA-26-0012-02		
Grantee/Contractor:	Volpe National Transportation Systems Center Kendall Square Cambridge, Massachusetts 02142		
Principal Investigator:	William Hathaway, DTS-38	*Telephone:*	(617) 494-2081
FTA Project Manager:	Rhonda Crawley, TTS-3	*Telephone:*	(202) 366-0196
Funding Source:	Section 26	*Funding:*	$50,000
Start Date:	September 1994	*Estimated Completion:*	October 1995

Description: This project enables the Volpe Center to continue the maintenance and operations of the FTA Transit Safety and Security Bulletin Board. The bulletin board ensures the timeliness and accuracy of the information provided to the user. The bulletin board is a user-friendly, menu-driven system with information accessible to users seven days a week, 24 hours a day. It is located at Volpe Center and can be accessed by any person with a computer and modem at telephone number 1-800-231-2061. The bulletin board has been developed to provide a central communication point for information on transit safety. It includes current items of interest such as training opportunities, FTA events of interest, FTA regulations, available safety and security publications, and other files for downloading.

Safety and Security

Project Title:	**Security Guidelines**		
Project Number:	MA-26-7009		
Grantee/Contractor:	Volpe National Transportation Systems Center Kendall Square Cambridge, Massachusetts 02142		
Principal Investigator:	William Hathaway, DTS-38	***Telephone:***	(617) 494-2081
FTA Project Manager:	Roy Field, TTS-3	***Telephone:***	(202) 366-0197
Funding Source:	Section 26	***Funding:***	$150,000
Start Date:	June 1994	***Estimated Completion:***	July 1995

Description: This project involves the preparation, publication, and distribution of two sets of security documents, Emergency Preparedness Guidelines, and System Security Guidelines, to help transit agencies deal with emergencies including those resulting from crimes and terrorism. The following two reports will be updated and published: *Recommended Emergency Preparedness Guidelines for Rail Transit Systems*, published in 1985, and *Recommended Emergency Preparedness Guidelines for Urban, Rural, and Specialized Transit Systems*, published in 1991. Both reports will be updated to: 1) serve a wider audience including police, medical, fire and other emergency response forces, 2) include simulation, table top modeling and demonstration exercises, 3) incorporate new computerized decision aids, 4) emphasize incident command structures, and 5) cover terrorist emergencies. In addition to these updates, two current guidelines reports, *Systems Security Program Plan Guidelines* and *Transit Security Procedures Guide,* will be published and used as textbooks for the TSI System Security Training Course and distributed to the transit industry. These documents assist local transit managers and safety and security professionals in preventing crime and responding to criminal acts.

Project Title:	**Drug and Alcohol Compliance Monitoring**		
Project Number:	MA-90-7013		
Grantee/Contractor:	Volpe National Transportation Systems Center Kendall Square Cambridge, Massachusetts 02142		
Principal Investigator:	William Hathaway, DTS-38	***Telephone:***	(617) 494-2684
FTA Project Manager:	Judy Meade, TTS-3	***Telephone:***	(202) 366-0188
Funding Source:	Section 23	***Funding:***	$200,000
Start Date:	September 1994	***Estimated Completion:***	December 1995

Description: The FTA drug and alcohol rules require grantees to submit annual reports on their testing programs. The reports serve not only as a compliance tool, but also provide the FTA with data necessary to evaluate the effectiveness of the regulations and to support any future modifications. In order to analyze the content of the reports, the FTA must establish and maintain a computerized management information system (MIS) capable of generating information in the form of an annual summary to be utilized by the Office of the Secretary of Transportation, FTA, Congress and the transit industry. This project will develop the MIS, process and analyze the annual reports from grantees, and generate annual summaries.

Project Title:	**Drug and Alcohol Compliance Audits**		
Project Number:	MA-90-7014		
Grantee/Contractor:	Volpe National Transportation Systems Center Kendall Square Cambridge, Massachusetts 02142		
Principal Investigator:	William Hathaway, DTS-38	*Telephone:*	(617) 494-2684
FTA Project Manager:	Judy Meade, TTS-3	*Telephone:*	(202) 366-0188
Funding Source:	Section 23	*Funding:*	$300,000
Start Date:	September 1994	*Estimated Completion:*	December 1995

Description: The FTA has a statutory mandate to withold funds from grantees who fail to comply with the drug and alcohol rules. This project funds the creation and pilot testing of a compliance review (audit) manual to be used in extensive onsite reviews of drug and alcohol programs of grantees. The project assists grantees in their implementation efforts and help meet the FTA's oversight responsibilities. Funding supports actual compliance reviews in the field as part of FTA's oversight role.

Project Title:	**State Safety Oversight Audits**		
Project Number:	MA-90-7011-01		
Grantee/Contractor:	Volpe National Transportation Systems Center Kendall Square Cambridge, Massachusetts 02142		
Principal Investigator:	William Hathaway, DTS-38	*Telephone:*	(617) 494-2684
FTA Project Manager:	Roy Field, TTS-3	*Telephone:*	(202) 366-0197
Funding Source:	Section 23	*Funding:*	$75,000
Start Date:	September 1994	*Estimated Completion:*	December 1995

Description: The FTA State Safety Oversight rule requires States to audit and review the compliance of fixed guideway systems with the rule and to establish and implement system safety program plans for these guideway systems. FTA must participate in the audits and reviews as well as in the investigations of hazardous conditions. This project provides audit and compliance review support and expertise to FTA for its role in implementing the safety oversight requirements of Section 28 of the Federal Transit Act. Information on each State's compliance is being made available.

Project Title:	**State Safety Oversight Compliance Monitoring**		
Project Number:	MA-90-7008-01		
Grantee/Contractor:	Volpe National Transportation Systems Center Kendall Square Cambridge, Massachusetts 02142		
Principal Investigator:	William Hathaway, DTS-38	***Telephone:***	(617) 494-2684
FTA Project Manager:	Roy Field, TTS-3	***Telephone:***	(202) 366-0197
Funding Source:	Section 23	***Funding:***	$200,000
Start Date:	September 1994	***Estimated Completion:***	December 1995

Description: The FTA monitors State compliance with safety oversight requirements of Section 28 of the Federal Transit Act. This project is developing a management information system (MIS) for tracking State compliance with oversight requirements for fixed guideway systems. The monitoring system includes: 1) designation of the State oversight agency; 2) review and acceptance of a system safety program plan for each transit agency; 3) completion of biennial safety reviews by each agency; 4) investigation of accidents; 5) identification of hazards; and (6) corrective actions required by the State oversight agency.

Project Title:	**Advanced Automated Train Control System**		
Project Number:	CA-26-7004		
Grantee/Contractor:	Bay Area Rapid Transit District/BART 800 Madison Street, Lake Merritt Station Oakland, California 94604-2688		
Principal Investigator:	Eugene Nishinaga	***Telephone:***	(510) 869-2415
FTA Project Manager:	Venkat Pindiprolu, TTS-20	***Telephone:***	(202) 366-8061
Funding Source:	Section 26	***Funding:***	$19,575,000
Start Date:	September 1994	***Estimated Completion:***	May 1998

Description: The Regional Technology Alliance, consisting of the Bay Area Rapid Transit District (BART), and Hughes Transportation Control Systems, Inc. and Morrison Knudsen Train Control, Inc. (HMK) team, will develop an Advanced Automatic Train Control (AATC) System by conversion of an existing defense command, control, and communications technology. The system offers significant improvements in rail transit performance and brings sufficient flexibility to support a variety of future upgrades. The FTA will administer the AATC project on behalf of the Advanced Research Projects Agency (ARPA) of the Department of Defense. Volpe Center will assist the FTA in assuring full transit industry representation so that the project has industry relevance. AATC technologies will enable transit operators to nearly double the passenger carrying capacity and to realize a large increase in safety, flexibility, and reliability at significantly lower cost compared to conventional train control.

Project Title:	**Advanced Technology Transit Bus**		
Project Number:	CA-26-7002		
Grantee/Contractor:	Los Angeles County Metropolitan Transportation Authority 818 West Seventh Street, 11th Floor Los Angeles, California 90017		
Principal Investigator:	Dennis Newjahr	***Telephone:***	(213) 244-6463
FTA Project Manager:	Bart W. Mancini, TTS-20	***Telephone:***	(202) 366-8063
Funding Source:	Section 26	***Funding:***	$6,000,000
Start Date:	August 1994	***Estimated Completion:***	October 1999

Description: Current transit buses are overweight, difficult to maintain, and not easily accessible to persons with disabilities. The transit industry needs a bus which attracts new riders and meets Federal, state, and local requirements/regulations at a lower cost than current technology. This project enables the Los Angeles County Metropolitan Transportation Authority to continue the development of the new design Advanced Technology Transit Bus (ATTB). ATTB is being developed in partnership with the aerospace industry. The ATTB will be a light-weight, low-floor, low-emissions, user-friendly bus utilizing advanced technologies from the aerospace/defense sectors. The ATTB will be more easily maintained, accessible, user-friendly, and fuel efficient and have a longer life-span and lower life-cycle costs than existing buses.

Project Title:	**Advanced Technology Transit Bus**		
Project Number:	MA-26-0001-03		
Grantee/Contractor:	Technology Management Systems Inc. 99 South Bedford Street, Suite 211 Burlington, Massachusetts 01803-5128		
Principal Investigator:	Phani Raj	***Telephone:***	(617) 272-3033
FTA Project Manager:	Bart W. Mancini, TTS-20	***Telephone:***	(202) 366-8063
Funding Source:	Section 26	***Funding:***	$154,998
Start Date:	September 1994	***Estimated Completion:***	December 1995

Description: Technical support is needed to assist the FTA in monitoring the ATTB program. Support will include the review of deliverables, review of stress analysis models, support of peer review meetings, and analyzing and responding to technical and program issues. ATTB is the new design transit bus that is being developed in partnership with the aerospace industry. The ATTB will be a light-weight, low-floor, low-emissions, user-friendly bus utilizing advanced technologies.from the aerospace/defense sectors. The ATTB will be more easily maintained, accessible, user-friendly, and fuel efficient and have a longer life-span and lower life-cycle costs than existing buses.

Project Title:	**Altoona Bus Testing Management Oversight**		
Project Number:	MD-26-0001-06		
Grantee/Contractor:	Booz-Allen and Hamilton Inc. 4330 East-West Highway Bethesda, Maryland 20814		
Principal Investigator:	Tim Peck	***Telephone:***	(301) 907-4032
FTA Project Manager:	Bart W. Mancini, TTS-20	***Telephone:***	(202) 366-8063
Funding Source:	Section 26	***Funding:***	$200,000
Start Date:	September 1994	***Estimated Completion:***	December 1995

Description: The Pennsylvania Transportation Institute is the operator of the FTA Bus Testing Center at Altoona, Pennsylvania. This project enhances the implementation of the FTA Bus Testing Program which is designed to ensure that grantees purchase vehicles that are safe and able to withstand the rigors of transit service. The project addresses the findings of the Inspector General's bus testing audit, namely, the FTA management oversight activities. The project also responds to requests for bus testing determinations and provides technical support in all areas of the bus testing program including the following: review of bus testing determinations, development of finding reports, and performance studies and analyses. In addition, technical expertise will be provided to address specific technical bus testing issues.

Project Title:	**ARPA Transit Subsystem Support**		
Project Number:	MA-26-7014		
Grantee/Contractor:	Volpe National Transportation Systems Center Kendall Square Cambridge, Massachusetts 02142		
Principal Investigator:	Michael Dinning	*Telephone:*	(617) 494-2422
FTA Project Manager:	Ronald Kangas, TTS-20	*Telephone:*	(2-2) 366-0212
Funding Source:	Section 26	*Funding:*	$250,000
Start Date:	September 1994	*Estimated Completion:*	October 1995

Description: The FTA will administer the BART/HMK Advanced Automatic Train Control System project and the Demonstration of Universal Electric Transportation Subsystems (DUETS) Consortium project on behalf of ARPA of the Department of Defense. This project provides the FTA with resources for the monitoring and oversight of the ARPA project. The Volpe Center will provide the FTA with technical support as well as assist in assuring full transit industry representation so that the project has industry relevance.

Project Title:	**Bus Testing Fee Supplement**		
Project Number:	PA-03-0238-01 and PA-03-0238-02		
Grantee/Contractor:	Pennsylvania Transportation Institute 248 Calder Way, Suite 300 University Park, Pennsylvania 16801		
Principal Investigator:	Bohdan T. Kulakowski	*Telephone:*	(814) 863-1893
FTA Project Manager:	Bart Mancini, TTS-20	*Telephone:*	(202) 366-8063
Funding Source:	Section 26	*Funding:*	$2,125,000
Start Date:	December 1994	*Estimated Completion Date:*	December 1995

Description: This project is designed to promote production of better transit vehicles and components. The FTA pays 80 percent of the fee for bus testing directly to the Pennsylvania Transportation Institute, the operator of the Bus Testing Center in Altoona, Pennsylvania, on a reimbursable basis for tests performed. The remaining 20 percent must be paid by the bus manufacturer or entity having the vehicle tested. Payment is made to the Center at the time of delivery of the vehicle. This 80 percent subsidy applies only to standard fee schedule which includes the normal costs for testing, inspecting, vehicle servicing, routine maintenance, and fuel. The Federal share payment of the bus testing fee was authorized under ISTEA. This project lessens the financial burden on those transit systems required to have their vehicle tested at the Center. It also provides the Center's users with information on vehicle durability, performance, handling, fuel economy, noise and other elements.

Project Title:	**Demonstration of Universal Electric Transportation Subsystems**		
Project Number:	NM-26-7000 and NM-26-7000-01		
Grantee/Contractor:	DUETS Consortium Nova Bus of America PO Box 5670 R.I.A.C Roswell, New Mexico 88202-5670		
Principal Investigator:	David Reddy	***Telephone:***	(505) 347-7286
FTA Project Manager:	Steve Sill, TTS-20	***Telephone:***	(202) 366-0220
Funding Source:	Section 26	***Funding:***	$4,007,000
Start Date:	August 1994	***Estimated Completion:***	August 1996

Description: Existing transit buses are overweight, expensive to operate, and will not be able to comply with future clean air requirements. The objective of this project is to support the efforts of the Demonstration of Universal Electric Transportation Subsystems (DUETS) Consortium to develop and test an advanced alternatively fueled electric-hybrid drive system, advanced suspension components, and advanced vehicle control networks for transit bus applications. The resultant technologies will enable ultra-low emissions along with improved vehicle handling, reduced highway damage, and interfaces with intelligent transportation systems.

Project Title:	**Evaluation of Bus Testing Procedures**		
Project Number:	MA-26-7012		
Grantee/Contractor:	Volpe National Transportation Systems Center Kendall Square Cambridge, Massachusetts 02142		
Principal Investigator:	Herbert H. Gould	***Telephone:***	(617) 494-2134
FTA Project Manager:	Bart W. Mancini, TTS-20	***Telephone:***	(202) 366-8063
Funding Source:	Section 26	***Funding:***	$95,000
Start Date:	September 1994	***Estimated Completion:***	December 1995

Description: This project will enable the Volpe Center to evaluate and provide recommendations pertaining to the specific issues raised in the February 28, 1994, Inspector General's audit report on the Altoona Bus Testing Program.

Project Title:	**Inertial Navigation Technology Transfer**		
Project Number:	PA-26-0007-01		
Grantee/Contractor:	Transit Safety Research Alliance 2100 Wharton Street Pittsburgh, Pennsylvania 15203		
Principal Investigator:	Dr. Ted C. Giras	***Telephone:***	(412) 934-2105
FTA Project Manager:	Irving Chambers, TTS-20	***Telephone:***	(202) 366-0238
Funding Source:	Section 26	***Funding:***	$1,000,000
Start Date:	May 1994	***Estimated Completion:***	June 1995

Description: This project enables the Transit Safety Research Alliance to further demonstrate the safety, economic, and environmental benefits of deploying an inertial navigation tracking system in urban and rural environments. The demonstration applies inertial navigation concepts to light rail and rubber tire vehicles. The objective of the demonstration is to deliver an accurate and continuous indication of the vehicle's location. The tracking system is capable of continually monitoring the motion of transit vehicles overtime with no intervention from the vehicle. Overall, the project aims to show a system configuration that resembles a productive transit intermodal position system concept in terms of function, hardware and software components, power supplies, mechanical packaging, and data communications.

Project Title:	**Morgantown Control System Upgrade**		
Project Number:	WV-26-7000		
Grantee/Contractor:	West Virginia University Research Corporation 617 N. Spruce Street West Virginia University Morgantown, West Virginia 26506		
Principal Investigator:	Robert Hendershot	***Telephone:***	(304) 293-5011
FTA Project Manager:	Ronald D. Kangas , TTS-20	***Telephone:***	(202) 366-0212
Funding Source:	Section 26	***Funding:***	$200,000
Start Date:	June 1994	***Estimated Completion:***	June 1995

Description: The Morgantown Personal Rapid Transit System was built over 20 years ago. At the time it was built, the computer-operated control system was the most advanced in the transit industry, permitting close headway operation. Today, parts for this aged system are no longer available and must be custom made at great expense. This project will enable the West Virginia University to conduct an options study on the optimum approach to replacing its aged control technology with a state-of-the-art system. Recent advances in control technology will enable the University to upgrade its control system while maintaining service.

Technology Development

Project Title:	**Technology Deployment Program Support**		
Project Number:	DC-26-7016		
Grantee/Contractor:	U.S. Department of Transportation Office of the Secretary 400 7th Street, SW Washington, DC 20590		
Principal Investigator:	Noah Rifkin	***Telephone:***	(202) 366-9783
FTA Project Manager:	Jackie Hathaway, TTS-5	***Telephone:***	(202) 366-0187
Funding Source:	Section 26	***Funding:***	$7,500
Start Date:	August 1994	***Estimated Completion:***	August 1995

Description: The Director of Technology Deployment will be seeking to develop new alliances with other government agencies and the private industry to harness new technologies to solve transportation problems. Significant day-to-day work is needed to support the Department's technology development activities. This project provides support from the Volpe Center to the Director of Technology Deployment of the Office of the Secretary.

Project Title:	**Update Baseline Advanced Design Transit Coach Specifications**		
Project Number:	DC-26-7017		
Grantee/Contractor:	American Public Transit Association (APTA) 1201 New York Avenue, NW Washington, DC 20005		
Principal Investigator:	Karol Popkin	***Telephone:***	(202) 898-4052
FTA Project Manager:	Bart W. Mancini, TTS-20	***Telephone:***	(202) 366-8063
Funding Source:	Section 26	***Funding:***	$450,000
Start Date:	August 1994	***Estimated Completion:***	December 1995

Description: The process currently in place for the purchase of transit buses has created an adversarial relationship between transit operators and manufacturers resulting in higher cost vehicles. The consensus among the industry and FTA is that something needs to be done. It is anticipated that a standard purchase specification could significantly reduce and simplify the time required and the complexity of the procurement process which could result in lower cost vehicles. This project will enable the transit industry, operators and suppliers to develop an industry standard purchase and technical specification for transit buses similar to the "White Book" developed in the late 1970s. The White Book has become obsolete and needs to be updated.

Project Title:	**Project ACTION** **(Accessible Community Transportation in Our Nation)**		
Project Number:	DC-26-7011		
Grantee/Contractor:	National Easter Seal Society, Inc. 1350 New York Avenue, NW, Suite 915 Washington, DC 20005		
Principal Investigator:	Rosalyn M. Simon	*Telephone:*	(202) 347-3066
FTA Project Manager:	Roger Tate, TTS-30	*Telephone:*	(202) 366-0235
Funding Source:	Section 26	*Funding:*	$2,000,000
Start Date:	June 1994	*Estimated Completion:*	December 1995

Description: The National Easter Seal Society/Project ACTION will continue to develop transit accessibility demonstration projects that will: (1) identify persons with disabilities and their transportation needs; (2) develop outreach and marketing activities to encourage public transportation use by persons with disabilities; (3) provide training for transportation providers to increase their sensitivity to the needs of persons with disabilities; (4) provide training for persons with disabilities regarding the use of public transportation; and (5) encourage elimination of barriers to accessible services and facilities. In addition, the project enables Project ACTION to enhance the national resource center and clearinghouse's capability to disseminate their products on both the national and local levels, and to develop a system for evaluating various types of accessible transportation technologies.

Project Title:	**National Transit Institute**		
Project Number:	NJ-26-2901		
Grantee/Contractor:	Rutgers, The State University National Transit Institute 120 Albany Street, Suite 705 New Brunswick, New Jersey 08901		
Principal Investigator:	Alan J. Gibbs	***Telephone:***	(908) 932-1700
FTA Project Manager:	Charles T. Morison, TTS-30	***Telephone:***	(202) 366-0245
Funding Source:	Section 26	***Funding:***	$3,000,000
Start Date:	August 1994	***Estimated Completion:***	October 1995

Description: This is the third year of Federal support for the National Transit Institute (NTI), a project established under the Intermodal Surface Transportation Efficiency Act of 1991 with a mission to promote, develop, and deliver high quality education and training for persons engaged in Federal-aid transit work in order to improve public transit in the United States. Rutgers University established the NTI to serve the training and development needs of the transit industry. NTI, in cooperation with the FTA, develops and conducts training for state and local transit employees on a variety of topics relevant to the industry. The third year effort continues activities in three broad areas of service: Federal Program Training, Clearinghouse, and Industry Defined Training.

Project Title:	**Transit Cooperative Research Program**		
Project Number:	DC-26-7010		
Grantee/Contractor:	National Academy of Sciences Transportation Research Board 2101 Constitution Avenue, NW Washington, DC 20418		
Principal Investigator:	Robert Reiley	***Telephone:***	(202) 334-3224
FTA Project Manager:	Gwendolyn Cooper, TTS-10	***Telephone:***	(202) 366-0198
Funding Source:	Section 26	***Funding:***	$8,475,000
Start Date:	September 1994	***Estimated Completion:***	June 1999

Description: This project provides for the selection and conduct of projects under the third annual agenda of the Transit Cooperative Research Program (TCRP). The TCRP focuses on issues significant to the transit industry, with emphasis on developing near-term research solutions to a variety of transit problems involving facilities, service concepts, operations, planning, policy, human resources, maintenance, and administrative practices. The TCRP was authorized in the Intermodal Surface Transportation Efficiency Act of 1991. The program was created on May 13, 1992, by a Memorandum Agreement between three participants: the Transit Development Corporation, educational and research arm of the American Public Transit Association; the Federal Transit Administration; and the Transportation Research Board of the National Academy of Sciences. Research problem statements for TCRP are solicited periodically but may be submitted to the Transportation Research Board by anyone at anytime.

Project Title:	**University Transportation Centers Program**		
Project Number:	DC-11-1104		
Grantee/Contractor:	Research and Special Programs Administration 400 7th Street, SW Washington, DC 20590		
Principal Investigator:	Elaine Joost	***Telephone:***	(202) 366-5442
FTA Project Manager:	Patricia Cass, TTS-1	***Telephone:***	(202) 366-0185
Funding Source:	Section 26	***Funding:***	$6,000,000
Start Date:	May 1994	***Estimated Completion:***	April 1999

Description: This is an interagency agreement with the Research and Special Programs Administration (RSPA) of the U.S. Department of Transportation (DOT) to continue administering the University Transportation Center Program (UTCP). There are thirteen Centers in the UTCP, one in each of the ten standard Federal regions and three National Centers (Mack-Blackwell National Rural Transportation Study Center, University of Arkansas in Fayetteville; National Center for Management, Research, and Development, Morgan State University in Baltimore; and National Center for Transportation and Industrial Productivity, New Jersey Institute of Technology in Newark). This U.S. DOT sponsored program contributes to transportation education, research, and technology transfer. To reach its goal of attracting the best students to the transportation field, the UTCP promotes transportation study among groups underrepresented in the field. The UTCP's strong education component reflects the needs of the transportation industry for more inter- and multi-disciplinary professionals in the field.

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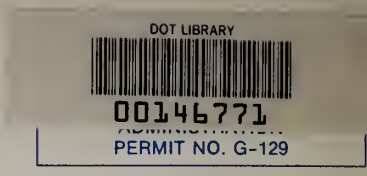
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